B.C.E. ELECTRONICS

GSEE TECH

GSEE TECH

Company Profile

Tianjin Geneuo Technology Co., Ltd. specializes in the development, production and sales of industrial automation products, system integration and engineering service.

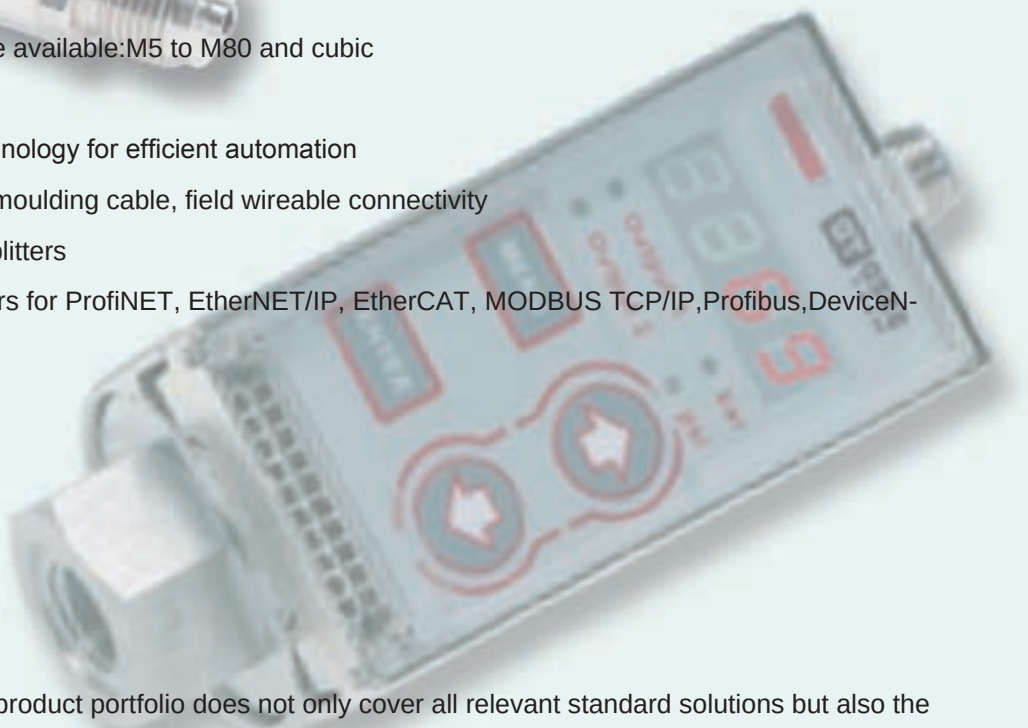
● Communication solution

-Industry EtherNET Switch

-Fieldbus modules: ProfiNET, EtherNET/IP, EtherCAT, MODBUS TCP/IP I/O modules

● Inductive sensors

-Different housing design are available:M5 to M80 and cubic



● Optimized connection technology for efficient automation

-M5 to M40 receptacle, pre-moulding cable, field wireable connectivity

-Passive junction box and splitters

-Industrial network connectors for ProfiNET, EtherNET/IP, EtherCAT, MODBUS TCP/IP,Profibus,DeviceNET,CC-link.

● LED lighting

- Machine station lighting

- Factory lighting

- Intelligent lighting solutions

Geneuo exceptionally large product portfolio does not only cover all relevant standard solutions but also the special requirements of individual industries. The products and the total solution have been widely used in automotive, iron & steel, machine tool, elevator, textile, packaging, rubber machine etc.

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Importation & Distribution Electronic Components

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SYSTEM CERTIFICATION ISO 9001 SGS

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- 60 series flush diaphram type ——— 044

GPD series pressure sensor

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- 69 series - programmable type ——— 072

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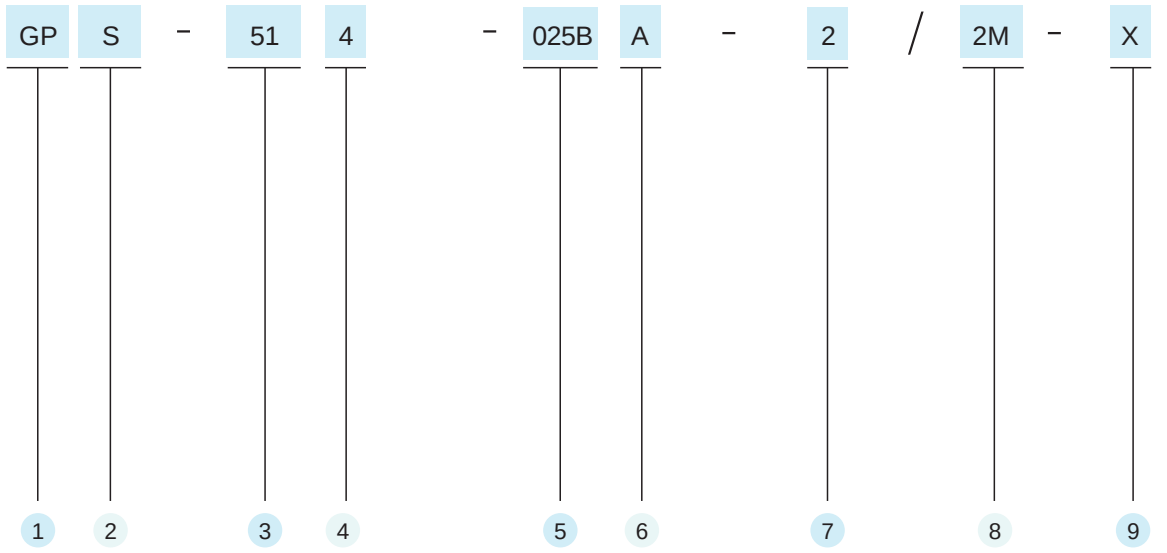
Pressure sensor selection



1 GP Pressure sensor

2
S Pressure switch
T Pressure transmitter
D Pressure sensor

3 Category
51 Pressure transmitter , related / absolute pressure , -1...0-600 bar , standard
52 Pressure transmitter, related pressure, 0...2.5-600 bar Certified for shipbuilding, thick film of SS
57 Pressure transmitter , related/absolute pressure 0...1-60 bar Certified for shipbuilding , Ceramic
50 Pressure transmitter , related pressure ,0...60-600 bar, SS
58 Pressure transmitter , related/absolute pressure , -1...0-40 bar, Ceramic
69 Pressure transmitter , related pressure , -1...0-600 bar , standard
60 Pressure transmitter , related/absolute pressure , -1...0.1-1000 bar , flush diaphragm

4 Mechanical connection
1 7/16"-20 UNF internal thread
2 G1/4" internal thread
3 1/4"-18 NPT internal thread
4 1/2"-14 NPT internal thread
5 M20x1.5 external thread
6 7/16"-20 UNF external thread
7 1/4"-18 NPT external thread
8 G1/4" external thread
9 R1/4" external thread
A R1/4" internal thread
B G1/2" external thread

5 Pressure range

01VB	-1...0 bar
06mB	0...0.6 bar
001B	0...1 bar
002B	0...1.6 bar
003B	0...2.5 bar
004B	0...4 bar
006B	0...6 bar
010B	0...10 bar
016B	0...16 bar
025B	0...25 bar
040B	0...40 bar
070B	0...60 bar
075B	0...70 bar
100B	0...100 bar
160B	0...160 bar
250B	0...250 bar
400B	0...400 bar
600B	0...600 bar

6 Measuring pressure mode
Blank Relative
A Absolute

7 Electrical output
1 1 DO , PNP
2 2 DO , PNP
3 1 DO , PNP + AO 4-20mA
4 1 DO , PNP + AO 0-10V
5 2 DO , PNP + AO 4-20mA
6 2 DO , PNP + AO 0-10V
7 AO 4-20mA + diagnostic input
8 AO 0-10V + diagnostic input
9 AO 4-20mA
A AO 0-10V
B AO 4-20mA , Explosion proof
C 1 DO , NPN
D 2 DO , NPN
E 1 DO , NPN + AO 4-20mA
F 1 DO , NPN + AO 0-10V
G 2 DO , NPN + AO 4-20mA
H 2 DO , NPN + AO 0-10V

8 Electrical connection
Blank M12x1 connection
*M thread, cable length（unit：m）
A DIN EN 175301-803-A Valve connector
C DIN EN 175301-803-C Valve connector

9 Accessories
Blank standard
Customized code X

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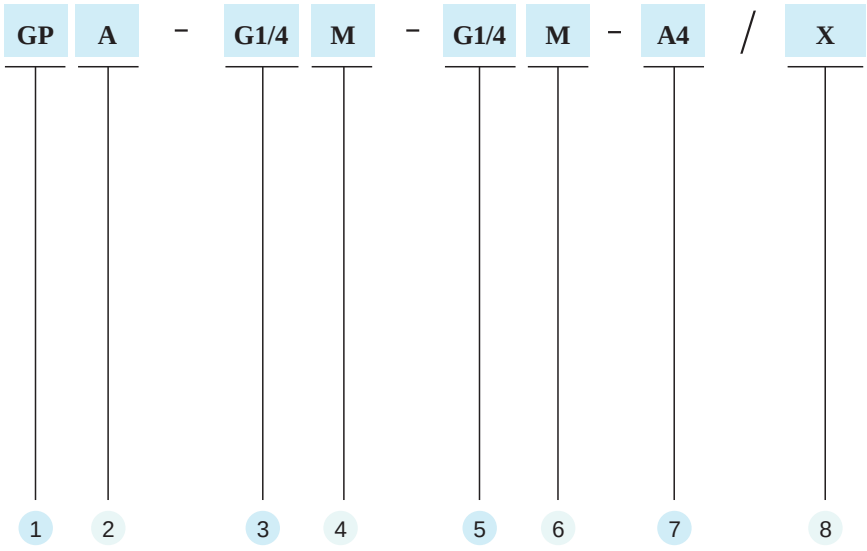

1 GP Pressure sensor

2 A Accessories

3 Pressure connection
G1/8 G1/8" BSP
G1/4 G1/4" BSP
G1/2 G1/2" BSP -15mm
GL1/2 G1/2" BSP -30mm
N1/8 1/8"-27 NPT
N1/4 1/4"-18 NPT
N1/2 1/2"-14 NPT
M20X1.5 M20x1.5

4 Screw type
M Male
F Female

5 Pressure connection
Blank 安装套管
DN** DN15/20/25/32...
流量传感器三通专用
G1/8 G1/8" BSP
G1/4 G1/4" BSP
G1/2 G1/2" BSP
N1/8 1/8"-27 NPT
N1/4 1/4"-18 NPT
N1/2 1/2"-14 NPT
M20X1.5 M20x1.5

6 Screw type
Blank Tee
M Male
F Female

7 Materials
A4 Stainless steel 316
A2 Stainless steel 304

8 Accessories
Blank 标准型号
定制产品 代码X

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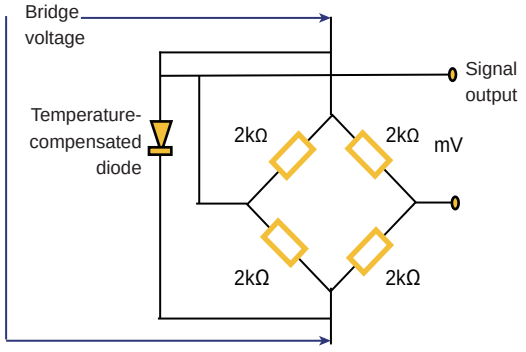
Operating principle

Pressure sensors operating principle is based on thick film piezoresistive bridge circuit.

Wheatstone measuring bridge circuit (close-loop bridge), made of thick film varistor, is printed on the back of film.

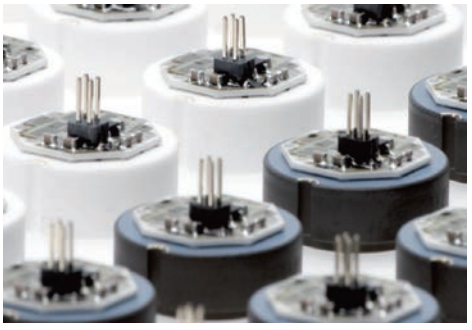
After connect to power suppply, varistors on bridge arm will have little deformation to change the resistance value while the measured media pressure work on the surface of ceromic film directly. Then voltage of bridge will be changed and output a linear mV signal which is proportional to actual pressure and to excitation voltage.

The internal chip will receive and process this signal, then display the current media pressure on display board. And compare this signal with user-setting value automaticlly, then active a DO or AO output.



Thick film pressure resistance bridge circuit diagram

GSEE-TECH unique diaphragm manufacturing technology assures excellent long-term stability of pressure sensors, which has been used in thousands of industrial applications.



Application of pressure sensor

Pressure sensors, with high operational reliability, accuracy, sensitivity, and wide media temperature range, can be suitable for so many different applications.

Based on the piezoelctric ceramics detection technology, pressure sensors have impact strength and vibration resistance, could operate safely under harsh application environment.

Hard housing makes GSEE-TECH pressure sensors could applicated in various industries such as metallurgy, automotive manufacturing, hydraulic and lubrication, petrochemical, power and machine tools etc.

Classical applications

Measure and control - gas and liquid pressure in pipeline system;

Monitor oil pressure in hydraulic cylinders and oil pipe, ensure pipeline safety;

Monitor pressure value flucturation of cutting oil;

Monitor media pressure inside of container

Industry applications

- Metallurgy - measure oil pressure of lubrication system in cold rolling, hot rolling and finishing rolling factories
- Automobile - monitor lubrication & hydraulic system in powertrain & pressing shop, welding jig hydraulic system, air pressure and water pump of coating process factory
- Metal processing - monitor hydraulic and pressure system in punching machine, CNC and aided manufacturing
- Cement - monitor main mill, apron feeder and gear lubrication and hydraulic system
- Another industries - monitor lubrication of gearbox

Application on monitoring lubricating oil in main pipe of main mill lubricationin station in cement industry

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Pressure unit conversion table

Example 1 bar = 14.504 psi	Phys. atmo-sphere atm	Techn. atmo-spere atm	lb/inch ^{2} psi	bar	Newton/m^2 Pascals	cm H_2O (+4°C)	inch H_2O (+4°C)	Torr	cm Hg (0 °C)	inch Hg (0 °C)
Phys. atmosphere atm	1	1.0332	14.696	1.0133	101.33 x 10^3	1033.2	406.79	760	76	29.92
Techn. atmospere atm	0.9678	1	14.223	0.9807	98067	1000.03	393.71	735.56	73.556	28.96
lb/inch^2 psi	0.068	0.0703	1	0.0689	6894.8	70.309	27.68	51.715	5.172	2.036
bar	0.9869	1.0197	14.504	1	10^5	1019.7	401.47	750.06	75	29.53
Newton/m^2 Pascals	9.869 x 10^{-6}	10.197 x 10^{-6}	145.0 x 10^{-6}	10^{-5}	1	10.197 x 10^{-3}	4.015 x 10^{-3}	7.50 x 10^{-3}	0.75 x 10^{-3}	0.2953 x 10^{-3}
cm H_2O (+4°C)	0.9678 x 10^{-3}	1 x 10^{-3}	14.223 x 10^{-3}	0.98096 x 10^{-3}	98.064	1	0.3937	0.7355	73.55 x 10^{-3}	28.96 x 10^{-3}
inch H_2O (+4°C)	2.458 x 10^{-3}	2.540 x 10^{-3}	36.13 x 10^{-3}	2.490 x 10^{-3}	249.08	2.54	1	1.868	0.1868	73.55 x 10^{-3}
Torr	1.3158 x 10^{-3}	1.3594 x 10^{-3}	19.34 x 10^{-3}	1.333 x 10^{-3}	133.32	1.3595	0.5353	1	0.1	39.37 x 10^{-3}
cm Hg (0 °C)	13.158 x 10^{-3}	13.594 x 10^{-3}	0.1934	13.33 x 10^{-3}	1333.2	13.595	5.353	10	1	0.3937
inch Hg (0 °C)	33.421 x 10^{-3}	34.531 x 10^{-3}	0.4912	33.86 x 10^{-3}	3386.4	34.532	13.595	25.4	2.54	1

Example : 1 bar=14.504 psi

Example 1 bar = 14.504 psi	Phys. atmo-sphere atm	Techn. atmo-spere atm	lb/inch ^{2} psi	bar	Newton/m^2 Pascals	cm H_2O (+4°C)	inch H_2O (+4°C)	Torr	cm Hg (0 °C)	inch Hg (0 °C)
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lb/inch^2 psi	0.068	0.0703	1	0.0689	6894.8	70.309	27.68	51.715	5.172	2.036
bar	0.9869	1.0197	14.504	1	10^5	1019.7	401.47	750.06	75	29.53
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cm H_2O (+4°C)	0.9678 x 10^{-3}	1 x 10^{-3}	14.223 x 10^{-3}	0.98096 x 10^{-3}	98.064	1	0.3937	0.7355	73.55 x 10^{-3}	28.96 x 10^{-3}
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Torr	1.3158 x 10^{-3}	1.3594 x 10^{-3}	19.34 x 10^{-3}	1.333 x 10^{-3}	133.32	1.3595	0.5353	1	0.1	39.37 x 10^{-3}
cm Hg (0 °C)	13.158 x 10^{-3}	13.594 x 10^{-3}	0.1934	13.33 x 10^{-3}	1333.2	13.595	5.353	10	1	0.3937
inch Hg (0 °C)	33.421 x 10^{-3}	34.531 x 10^{-3}	0.4912	33.86 x 10^{-3}	3386.4	34.532	13.595	25.4	2.54	1

Common pressure conversion :

1 bar = 0.1 MPa
1 bar = 100 kpa
1 bar = 14.5 psi
1 bar = 1 kg/cm^2(1 bar = 1kg)

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Pressure sensor selection guide

Series		51 Series	52 Series ⚓	57 Series ⚓
Pressure sensor				
Sensor type		GPT-51...	GPT-52...	GPT-57...
Pressure detecting element mterial		Ceramic Al_2O_3	Thick film stainless steel	Ceramic Al_2O_3
Output type	analog	4...20mA	4...20mA (Ex version optional)	4...20mA (Ex version optional)
	analog	0...10V	0...10V	0...10V
	digital			
	digital + analog			
Power supply		8/11.4 - 33 VDC	7/10/12 - 33 VDC	7/10/12 - 33 VDC
Electrical connection		Cable 1.5 m Swift connector Connector M12X1 Connector AMP JPT Connector DIN EN 175301-803-C	1Cable 1.5 m with swift connector ----- Connector M12X1 ----- Connector DIN EN 175301-803-A	1Cable 1.5 m with swift connector ----- Connector M12X1 ----- Connector DIN EN 175301-803-A
Tolerance full scale		<fs 0.3%	<fs 0.3%	<fs 0.3%
Pressure range		-1 ... 0-600 bar (relative/absolute)	0 ... 2.5-600 bar (relative)	0 ... 1-60 bar (relative/absolute)
Pressure connection		Inside or outside thread	Outside thread	Inside or outside thread
Features description		51 series pressure transmitters meet the highest specifications for longevity, accuracy, temperature stability and EMC characteristics, making them suitable for an extremely wide range of demanding industrial applications.	The compact type 52 pressure transmitter for shipbuilding. The pressure cell incorporates a fully welded construction within the transducer housing. Highest requirements in various applications concerning burst can be met.	The compact type 57 pressure transmitter is based upon the well proven ceramic technology These transmitters are suitable for applications across a broad spectrum of industries and shipbuilding.
Page number		Page 08	Page 22	Page 34
Special certification			GL ABS	GL ABS

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60 Series	50 Series	58 Series	69 Series
GPT-60...	GPT-50...	GPT-58...	GPT-69...
Piezo resistive silicon	Thick film stainless steel	Ceramic Al_2O_3	Ceramic Al_2O_3
4...20mA (Ex version optional) 0...10V	4...20mA 0...10V Single or double (PNP or NPN) Single or double (PNP or NPN) +Current or Voltage analog	4...20mA (Ex version optional) 0...10V Single or double (PNP or NPN) Single or double (PNP or NPN) +Current or Voltage analog	4...20mA (Ex version optional) 0...10V Single or double (PNP/NPN) Single or double (PNP/NPN) +Current or Voltage analog
9/12 - 28/30/33 VDC	17 - 33 VDC	17 - 33 VDC	17 - 33 VDC
Cable (PUR/Teflon) Binder 723 (M16 , 5 Pin) Lumberg RSF 4 (1/2" , 4 Pin) Lumberg RSF 50 (7/8" , 5 Pin) Connector DIN EN 175301-803-A	----- ----- Connector M12X1 thread ----- -----	----- ----- Connector M12X1 thread ----- -----	----- ----- Connector M12X1 thread ----- -----
< 0.25% fs	< 0.5% fs	< 0.5% fs	< 0.5% fs
0...0.1-1000 bar (Relative/Absolute)	0...60-600 bar (Relative)	-1...0-40 bar (Relative/Absolute)	-1...0-600 bar (Relative)
Inside or outside thread	Inside or outside thread	Inside or outside thread	G1/4" Inside thread
60 series with piezoresistive measuring elements have compensated, calibrated and amplified sensor signals. Its welded construction provides a watertight seal. With its sophisticated building block system, individual designs to meet specific applications are possible.	The programmable pressure sensor type 50 series have a robust industry design. The parameters are easily adjustable with two function keys. The large 4 digit LED display assures a good accuracy of reading. The pressure measuring cell is fully welded.	The programmable pressure sensor type 58 series have a robust industry design. The parameters are easily adjustable with two function keys. The large 4 digit LED display assures a good accuracy of reading. The pressure measuring cell is fully welded.	The programmable pressure sensor type 69 has a robust industry design. Parameters can easily be programmed with three different configuration menus with easy to operate keys. The large 4 digit LED display assures a good accuracy of reading.
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GPT-51...

- Compact, rugged construction for highest operational reliability
- No media egress when exceeding rupture pressure (patent technology)
- Negligible temperature influence on accuracy
- Excellent EMC capacity
- Suitable for industrial applications
- Certified :

- Connector : page 19
- Accessories : page 19
- dimensional drawing : page 20
- Wiring diagram : page 21
- ------

Pressure transmitter type (1)		GPT-512-01VB-...	GPT-518-01VB-...
Medium		Liquids and gases	
Pressure range		-1 ... 0 bar , Relative (2)	
Max. allowable pressure		3 bar	
Power supply	4...20 mA Current output	8 ... 33 VDC	
	0...10 V Voltage output	11.4 ... 33 VDC	
Temperature		-1 ... 250 bar : -15 ... +125 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4305 / AISI 303	
	Sensor	Ceramic Al_2O_3	
	Sealing material	FPM (-1 ... 60 bar)	
Operation Current	2-wire 4...20 mA current output	< 20 mA	
	3-wire 0...10 V voltage output	< 4 mA	
Load risistanse	4...20 mA current output	< 1 kΩ	
	0...10 V voltage output	>10 kΩ / < 100 nF	
Response time		< 2 ms	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC	TC zero point	≤ ± 0.15 % fs /10 K	
	TC sensitivity	≤ ± 0.15 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.3 % fs	
Tolerance full scale		≤ ± 0.3 % fs	
Shock		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
Vibration		20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1 metal thread	
Pressure connection(4)		G1/4" Inside thread, with O-Ring seal	G1/4" Outside thread, DIN 3852
Output——Type, ID No.	2-wire 4...20 mA current output	GPT-512-01VB-9 , A5100100	GPT-518-01VB-9 , A5700100
	3-wire 0...10 V voltage output	GPT-512-01VB-A , A5100101	GPT-518-01VB-A , A5700101

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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GPT-512-001B-...	GPT-518-001B-...	GPT-512-002B-...	GPT-518-002B-...
Liquids and gases		Liquids and gases	
0 ... 1 bar, Relative (2)		0 ... 1.6 bar, Relative (2)	
3 bar		4.8 bar	
8 ... 33 VDC 11.4 ... 33 VDC		8 ... 33 VDC 11.4 ... 33 VDC	
-1 ... 250 bar : -15 ... +125 °C		-1 ... 250 bar : -15 ... +125 °C	
IP67		IP67	
Stainless steel1.4305 / AISI 303 Ceramic Al_2O_3 FPM (-1 ... 60 bar)		Stainless steel 1.4305 / AISI 303 Ceramic Al_2O_3 FPM (-1 ... 60 bar)	
< 20 mA < 4 mA		< 20 mA < 4 mA	
< 1 kΩ >10 kΩ / < 100 nF		< 1 kΩ >10 kΩ / < 100 nF	
< 2 ms		< 2 ms	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.15 % fs /10 K ≤ ± 0.15 % fs /10 K		≤ ± 0.15 % fs /10 K ≤ ± 0.15 % fs /10 K	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
100 g, 11 ms half sine wave, acc. IEC 60068-2-27		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6		20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Connector M12x1 metal thread		Connector M12x1 metal thread	
G1/4" Inside thread, with O-Ring seal	G1/4" Outside thread, DIN 3852	G1/4" Inside thread, with O-Ring seal	G1/4" Outside thread, DIN 3852
GPT-512-001B-9 , A5101100	GPT-518-001B-9 , A5701100	GPT-512-002B-9 , A5102100	GPT-518-002B-9 , A5702100
GPT-512-001B-A , A5101101	GPT-518-001B-A , A5701101	GPT-512-002B-A , A5102101	GPT-518-002B-A , A5702101

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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GPT-51...

- Compact, rugged construction for highest operational reliability
- No media egress when exceeding rupture pressure (patent technology)
- Negligible temperature influence on accuracy
- Excellent EMC capacity
- Suitable for industrial applications
- Certified :

- Connector : page 19
- Accessories : page 19
- dimensional drawing : page 20
- Wiring diagram : page 21
- ------

Pressure transmitter type (1)		GPT-512-003B-...	GPT-518-003B-...
Medium		Liquids and gases	
Pressure range		-1 ... 0 bar , Relative (2)	
Max. allowable pressure		7.5 bar	
Power supply	4...20 mA Current output	8 ... 33 VDC	
	0...10 V Voltage output	11.4 ... 33 VDC	
Temperature		-1 ... 250 bar : -15 ... +125 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4305 / AISI 303	
	Sensor	Ceramic Al_2O_3	
	Sealing material	FPM (-1 ... 60 bar)	
Operation Current	2-wire 4...20 mA current output	< 20 mA	
	3-wire 0...10 V voltage output	< 4 mA	
Load risistanse	4...20 mA current output	< 1 kΩ	
	0...10 V voltage output	>10 kΩ / < 100 nF	
Response time		< 2 ms	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC	TC zero point	≤ ± 0.15 % fs /10 K	
	TC sensitivity	≤ ± 0.15 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.3 % fs	
Tolerance full scale		≤ ± 0.3 % fs	
Shock		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
Vibration		20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1 metal thread	
Pressure connection(4)		G1/4" Inside thread, with O-Ring seal	G1/4" Outside thread, DIN 3852
Output——Type, ID No.	2-wire 4...20 mA current output	GPT-512-003B-9 , A5103100	GPT-518-003B-9 , A5703100
	3-wire 0...10 V voltage output	GPT-512-003B-A , A5103101	GPT-518-003B-A , A5703101

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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GPT-512-004B-...	GPT-518-004B-...	GPT-512-006B-...	GPT-518-006B-...
Liquids and gases		Liquids and gases	
0 ... 4 bar, Relative (2)		0 ... 6 bar, Relative (2)	
12 bar		15 bar	
8 ... 33 VDC 11.4 ... 33 VDC		8 ... 33 VDC 11.4 ... 33 VDC	
-1 ... 250 bar : -15 ... +125 °C		-1 ... 250 bar : -15 ... +125 °C	
IP67		IP67	
Stainless steel1.4305 / AISI 303 Ceramic Al_2O_3 FPM (-1 ... 60 bar)		Stainless steel1.4305 / AISI 303 Ceramic Al_2O_3 FPM (-1 ... 60 bar)	
< 20 mA < 4 mA		< 20 mA < 4 mA	
< 1 kΩ >10 kΩ / < 100 nF		< 1 kΩ >10 kΩ / < 100 nF	
< 2 ms		< 2 ms	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.15 % fs /10 K ≤ ± 0.15 % fs /10 K		≤ ± 0.15 % fs /10 K ≤ ± 0.15 % fs /10 K	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
100 g, 11 ms half sine wave, acc. IEC 60068-2-27		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6		20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Connector M12x1 metal thread		Connector M12x1 metal thread	
G1/4" Inside thread, with O-Ring seal	G1/4" Outside thread, DIN 3852	G1/4" Inside thread, with O-Ring seal	G1/4" Outside thread, DIN 3852
GPT-512-004B-9 , A5104100	GPT-518-004B-9 , A5704100	GPT-512-006B-9 , A5105100	GPT-518-006B-9 , A5705100
GPT-512-004B-A , A5104101	GPT-518-004B-A , A5704101	GPT-512-006B-A , A5105101	GPT-518-006B-A , A5705101

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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Pressure transmitter type (1)		GPT-512-010B-...	GPT-518-010B-...
Medium		Liquids and gases	
Pressure range		0 ... 10 bar , Relative (2)	
Max. allowable pressure		25 bar	
Power supply	4...20 mA Current output	8 ... 33 VDC	
	0...10 V Voltage output	11.4 ... 33 VDC	
Temperature		-1 ... 250 bar : -15 ... +125 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4305 / AISI 303	
	Sensor	Ceramic Al_2O_3	
	Sealing material	FPM (-1 ... 60 bar)	
Operation Current	2-wire 4...20 mA current output	< 20 mA	
	3-wire 0...10 V voltage output	< 4 mA	
Load risistanse	4...20 mA current output	< 1 kΩ	
	0...10 V voltage output	>10 kΩ / < 100 nF	
Response time		< 2 ms	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC	TC zero point	≤ ± 0.15 % fs /10 K	
	TC sensitivity	≤ ± 0.15 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.3 % fs	
Tolerance full scale		≤ ± 0.3 % fs	
Shock		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
Vibration		20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1 metal thread	
Pressure connection(4)		G1/4" Inside thread, with O-Ring seal	G1/4" Outside thread, DIN 3852
Output——Type, ID No.	2-wire 4...20 mA current output	GPT-512-010B-9 , A5106100	GPT-518-010B-9 , A5706100
	3-wire 0...10 V voltage output	GPT-512-010B-A , A5106101	GPT-518-010B-A , A5706101

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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GPT-512-016B-...	GPT-518-016B-...	GPT-512-025B-...	GPT-518-025B-...
Liquids and gases		Liquids and gases	
0 ... 16 bar, Relative (2)		0 ... 25 bar, Relative (2)	
40 bar		62.5 bar	
8 ... 33 VDC 11.4 ... 33 VDC		8 ... 33 VDC 11.4 ... 33 VDC	
-1 ... 250 bar : -15 ... +125 °C		-1 ... 250 bar : -15 ... +125 °C	
IP67		IP67	
Stainless steel1.4305 / AISI 303 Ceramic Al_2O_3 FPM (-1 ... 60 bar)		Stainless steel1.4305 / AISI 303 Ceramic Al_2O_3 FPM (-1 ... 60 bar)	
< 20 mA < 4 mA		< 20 mA < 4 mA	
< 1 kΩ >10 kΩ / < 100 nF		< 1 kΩ >10 kΩ / < 100 nF	
< 2 ms		< 2 ms	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.15 % fs /10 K ≤ ± 0.15 % fs /10 K		≤ ± 0.15 % fs /10 K ≤ ± 0.15 % fs /10 K	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
100 g, 11 ms half sine wave, acc. IEC 60068-2-27		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6		20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Connector M12x1 metal thread		Connector M12x1 metal thread	
G1/4" Inside thread, with O-Ring seal	G1/4" Outside thread, DIN 3852	G1/4" Inside thread, with O-Ring seal	G1/4" Outside thread, DIN 3852
GPT-512-016B-9 , A5107100	GPT-518-016B-9 , A5707100	GPT-512-025B-9 , A5108100	GPT-518-025B-9 , A5708100
GPT-512-016B-A , A5107101	GPT-518-016B-A , A5707101	GPT-512-025B-A , A5108101	GPT-518-025B-A , A5708101

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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Pressure transmitter type (1)		GPT-512-040B-...	GPT-518-040B-...
Medium		Liquids and gases	
Pressure range		0 ... 40 bar, Relative (2)	
Max. allowable pressure		100 bar	
Power supply	4...20 mA Current output	8 ... 33 VDC	
	0...10 V Voltage output	11.4 ... 33 VDC	
Temperature		-1 ... 250 bar : -15 ... +125 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel1.4305 / AISI 303	
	Sensor	Ceramic Al_2O_3	
	Sealing material	FPM (-1 ... 60 bar)	
Operation Current	2-wire 4...20 mA current output	< 20 mA	
	3-wire 0...10 V voltage output	< 4 mA	
Load risistanse	4...20 mA current output	< 1 kΩ	
	0...10 V voltage output	>10 kΩ / < 100 nF	
Response time		< 2 ms	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC	TC zero point	≤ ± 0.15 % fs /10 K	
	TC sensitivity	≤ ± 0.15 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.3 % fs	
Tolerance full scale		≤ ± 0.3 % fs	
Shock		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
Vibration		20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1 metal thread	
Pressure connection(4)		G1/4" Inside thread, with O-Ring seal	G1/4" Outside thread, DIN 3852
Output——Type, ID No.	2-wire 4...20 mA current output	GPT-512-040B-9 , A5109100	GPT-518-040B-9 , A5709100
	3-wire 0...10 V voltage output	GPT-512-040B-A , A5109101	GPT-518-040B-A , A5709101

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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GPT-512-070B-...	GPT-518-070B-...	GPT-512-100B-...	GPT-518-100B-...
Liquids and gases		Liquids and gases	
0 ... 60 bar , Relative (2)		0 ... 100 bar, Relative (2)	
150 bar		250 bar	
8 ... 33 VDC 11.4 ... 33 VDC		8 ... 33 VDC 11.4 ... 33 VDC	
-1 ... 250 bar : -15 ... +125 °C		-1 ... 250 bar : -15 ... +125 °C	
IP67		IP67	
Stainless steel1.4305 / AISI 303 Ceramic Al_2O_3 FPM (-1 ... 60 bar)		Stainless steel1.4305 / AISI 303 Ceramic Al_2O_3 FPM (100 ... 250 bar)	
< 20 mA < 4 mA		< 20 mA < 4 mA	
< 1 kΩ >10 kΩ / < 100 nF		< 1 kΩ >10 kΩ / < 100 nF	
< 2 ms		< 2 ms	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.15 % fs /10 K ≤ ± 0.15 % fs /10 K		≤ ± 0.15 % fs /10 K ≤ ± 0.15 % fs /10 K	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
100 g, 11 ms half sine wave, acc. IEC 60068-2-27		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6		20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Connector M12x1 metal thread		Connector M12x1 metal thread	
G1/4" Inside thread, with O-Ring seal	G1/4" Outside thread, DIN 3852	G1/4" Inside thread, with O-Ring seal	G1/4" Outside thread, DIN 3852
GPT-512-070B-9 , A510A100	GPT-518-070B-9 , A570A100	GPT-512-100B-9 , A510B100	GPT-518-100B-9 , A570B100
GPT-512-070B-A , A510A101	GPT-518-070B-A , A570A101	GPT-512-100B-A , A510B101	GPT-518-100B-A , A570B101

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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Pressure transmitter type (1)		GPT-512-160B-...	GPT-518-160B-...
Medium		Liquids and gases	
Pressure range		0 ... 160 bar , Relative (2)	
Max. allowable pressure		400 bar	
Power supply	4...20 mA Current output	8 ... 33 VDC	
	0...10 V Voltage output	11.4 ... 33 VDC	
Temperature		-1 ... 250 bar : -15 ... +125 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4305 / AISI 303	
	Sensor	Ceramic Al_2O_3	
	Sealing material	FPM (100 ... 250 bar)	
Operation Current	2-wire 4...20 mA current output	< 20 mA	
	3-wire 0...10 V voltage output	< 4 mA	
Load risistanse	4...20 mA current output	< 1 kΩ	
	0...10 V voltage output	>10 kΩ / < 100 nF	
Response time		< 2 ms	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC	TC zero point	≤ ± 0.15 % fs /10 K	
	TC sensitivity	≤ ± 0.15 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.3 % fs	
Tolerance full scale		≤ ± 0.3 % fs	
Shock		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
Vibration		20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1 metal thread	
Pressure connection(4)		G1/4" Inside thread, with O-Ring seal	G1/4" Outside thread, DIN 3852
Output——Type, ID No.	2-wire 4...20 mA current output	GPT-512-160B-9 , A510C100	GPT-518-160B-9 , A570C100
	3-wire 0...10 V voltage output	GPT-512-160B-A , A510C101	GPT-518-160B-A , A570C101

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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GPT-512-250B-...	GPT-518-250B-...	GPT-512-400B-...	GPT-518-400B-...
Liquids and gases		Liquids and gases	
0 ... 250 bar , Relative (2)		0 ... 400 bar , Relative (2)	
625 bar		900 bar	
8 ... 33 VDC 11.4 ... 33 VDC		8 ... 33 VDC 11.4 ... 33 VDC	
-1 ... 250 bar：-15 ... +125 °C		400 ... 600 bar：-40 ... +150 °C	
IP67		IP67	
Stainless steel1.4305 / AISI 303 Ceramic Al_2O_3 FPM (100 ... 250 bar)		Stainless steel1.4305 / AISI 303 Ceramic Al_2O_3 FPM (400 ... 600 bar) special material	
< 20 mA < 4 mA		< 20 mA < 4 mA	
< 1 kΩ >10 kΩ / < 100 nF		< 1 kΩ >10 kΩ / < 100 nF	
< 2 ms		< 2 ms	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.15 % fs /10 K ≤ ± 0.15 % fs /10 K		≤ ± 0.15 % fs /10 K ≤ ± 0.15 % fs /10 K	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
100 g, 11 ms half sine wave, acc. IEC 60068-2-27		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6		20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Connector M12x1 metal thread		Connector M12x1 metal thread	
G1/4" Inside thread, with O-Ring seal	G1/4" Outside thread, DIN 3852	G1/4" Inside thread, with O-Ring seal	G1/4" Outside thread, DIN 3852
GPT-512-250B-9 , A510D100	GPT-518-250B-9 , A570D100	GPT-512-400B-9 , A510E100	GPT-518-400B-9 , A570E100
GPT-512-250B-A , A510D101	GPT-518-250B-A , A570D101	GPT-512-400B-A , A510E101	GPT-518-400B-A , A570E101

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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Pressure transmitter type (1)		GPT-512-600B-...	GPT-518-600B-...
Medium		Liquids and gases	
Pressure range		0 ... 600 bar, Relative (2)	
Max. allowable pressure		900 bar	
Power supply	4...20 mA Current output	8 ... 33 VDC	
	0...10 V Voltage output	11.4 ... 33 VDC	
Temperature		400 ... 600 bar：-40 ... +150 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel1.4305 / AISI 303	
	Sensor	Ceramic Al_2O_3	
	Sealing material	FPM (400 ... 600 bar) special material	
Operation Current	2-wire 4...20 mA current output	< 20 mA	
	3-wire 0...10 V voltage output	< 4 mA	
Load risistanse	4...20 mA current output	< 1 kΩ	
	0...10 V voltage output	>10 kΩ / < 100 nF	
Response time		< 2 ms	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC	TC zero point	≤ ± 0.15 % fs /10 K	
	TC sensitivity	≤ ± 0.15 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.3 % fs	
Tolerance full scale		≤ ± 0.3 % fs	
Shock		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
Vibration		20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1 metal thread	
Pressure connection(4)		G1/4" Inside thread, with O-Ring seal	G1/4" Outside thread, DIN 3852
Output——Type, ID No.	2-wire 4...20 mA current output	GPT-512-600B-9 , A510F100	GPT-518-600B-9 , A570F100
	3-wire 0...10 V voltage output	GPT-512-600B-A , A510F101	GPT-518-600B-A , A570F101

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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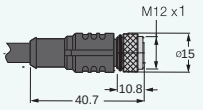
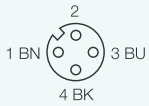
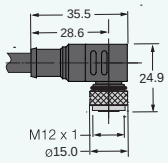
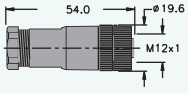
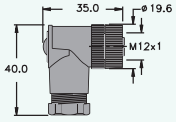
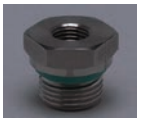
Electrical connections (5)

Precast cable		Pin Number	Cable Length	ID No.	Type
M12x1 Straight Male Connector 		3	2m	10011000	EK3-2M/P00
			5m	10011001	EK3-5M/P00
			10m	10011002	EK3-10M/P00
M12x1 Angle Male Connector 		3	2m	10011030	ELK3-2M/P00
			5m	10011031	ELK3-5M/P00
			10m	10011032	ELK3-10M/P00

Swift connector		Pin Number	Cable diameter	Outlet	ID No.	Type
M12x1 Straight Female Connector 		4	4-6 mm	PG7	10091000	EK4112-0/7
			6-8 mm	PG9	10091001	EK4112-0/9
M12x1 Angle Female Connector 	PBT , Black / Brass nickel plated, Spring-type terminals 85°C , 250 V , 4 A	4	4-6 mm	PG7	10091010	ELK4112-0/7
			6-8 mm	PG9	10091011	ELK4112-0/9

Accessories (6)

	Instruction	Type , ID No.
	Thread conversion device , G1/4" to G1/4" Outside thread Shell material: Stainless steel	GPA-G1/4M-G1/4M-A4 , B5130010
	Thread conversion device , G1/4" to G1/2" Outside thread Shell material: Stainless steel	GPA-G1/4M-G1/2M-A4 , B5140010
	Thread conversion device , G1/4" to M20X1.5 Outside thread Shell material: Stainless steel	GPA-G1/4M-M20X1,5M-A4 , B5180010
	Thread conversion device , G1/4" Inside to G1/2" Outside thread Shell material: Stainless steel	GPA-G1/4F-G1/4M-A4 , B5130110
	Thread conversion device , G1/4" Inside to G1/2" Outside thread Shell material: Stainless steel	GPA-G1/4F-G1/2M-A4 , B5140110

(5)Other connector types please ask connector product manager

(6)Other mounting accessories types with different thread please ask relative product manager

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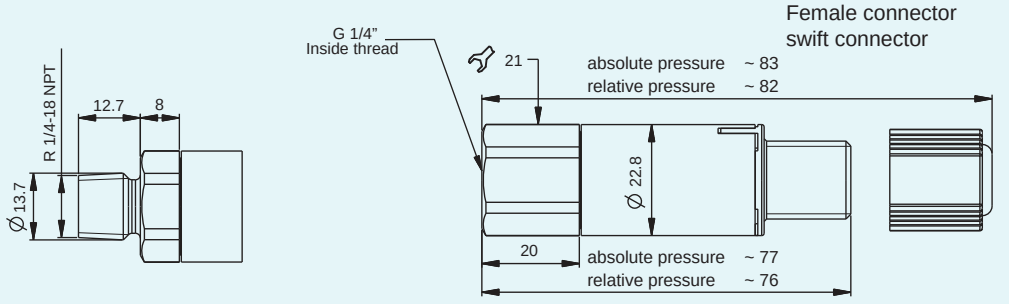
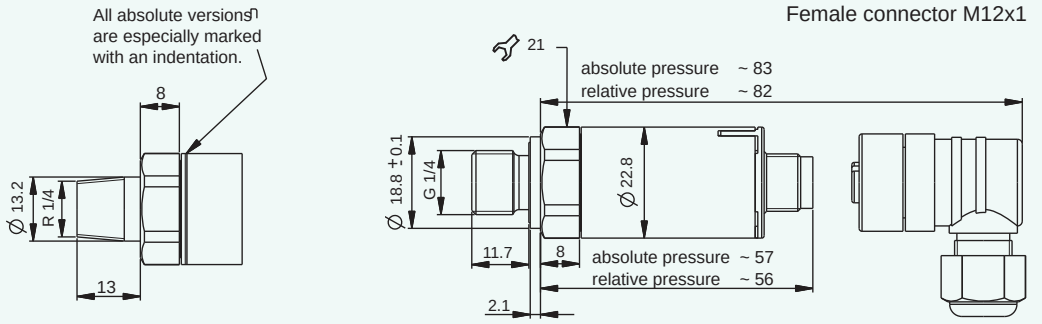
Dimensional drawing

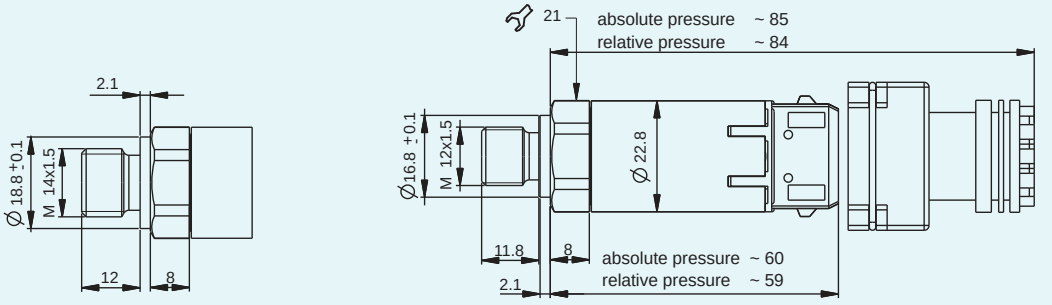
Female connector
swift connector



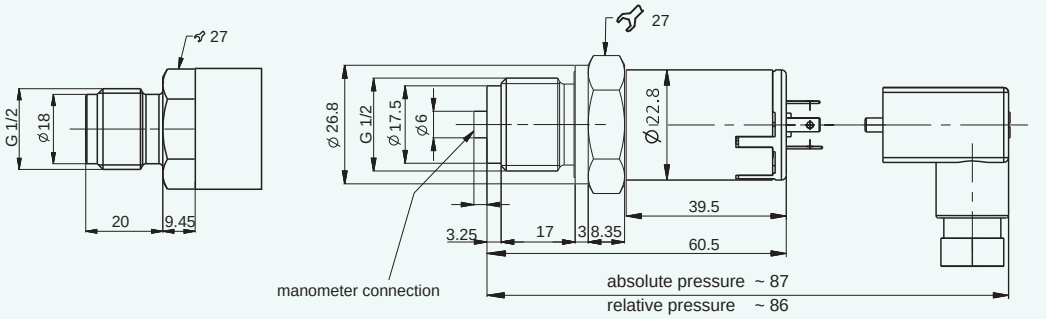
Female connector M12x1



Female connector AMP JPT



Female connector
DIN EN 175301-803-C



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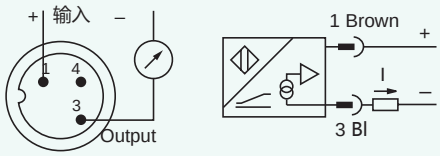
Wiring diagram

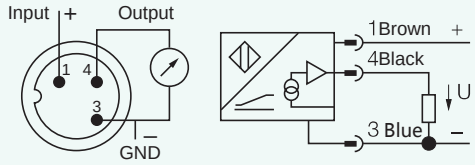
Female connector M12x1

2 wire (4 ... 20 mA , current output)



1 (Input) 3 (Output)

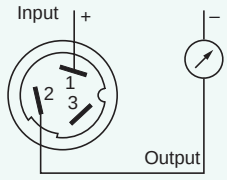
3 wire (0-10 V , voltage output)



1 (Input) 4 (Output) 3 (GND)

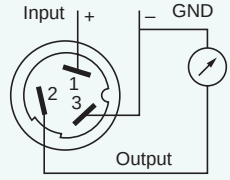
Female connector swift connector

2 wire (4 ... 20 mA , current output)



1 (Input) 2 (Output)

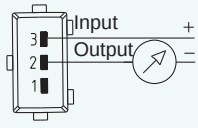
3 wire (0-10 V , voltage output)



1 (Input) 2 (Output) 3 (GND)

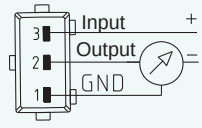
Female connector AMP JPT

2 wire (4 ... 20 mA , current output)



3 (Input) 2 (Output)

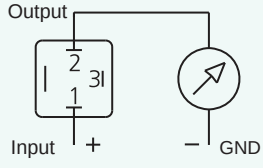
3 wire (0-10 V , voltage output)



3 (Input) 2 (Output) 1 (GND)

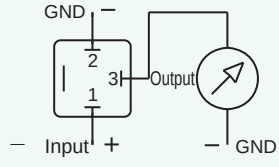
Female connector DIN EN 175301-803-C

2 wire (4 ... 20 mA , current output)



1 (Input) 2 (Output)

3 wire (0-10 V , voltage output)



1 (Input) 3 (Output) 2 (GND)

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52 Series Relative pressure transmitter for shipbuilding

GPT-52...

- Compact, rugged construction
- Welded without sealing parts
- The thick stainless steel pressure measuring element
- Excellent EMC capacity
- Suitable for industrial applications , the most important certifications for the shipbuilding industry.
- Certified :

- Connector : page 31
- Accessories : page 31
- dimensional drawing : page 32
- Wiring diagram : page 33
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Pressure transmitter type (1)		GPT-528-003B-...	GPT-52B-003B-...
Medium		Liquids, gases and refrigerants (incl. ammonia)	
Pressure range		0 ... 2.5 bar, Relative (2)	
Max. allowable pressure		12.5 bar / 25 bar	
Power supply	4...20 mA Current output / Ex	7 ... 33 VDC / 10 ...30 VDC	
	0...10 V Voltage output	12 ... 33 VDC	
Temperature		-40 ... +135 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	Stainless steel	
	Sealing material	Welded without sealing parts	
Operation Current	4...20 mA Current output / Ex	< 23 mA / < 20 mA	
	0...10 V Voltage output	< 7 mA	
Load risistanse	4...20 mA Current output / Ex	< 1.3 kΩ / < 1 kΩ	
	0...10 V Voltage output	>10 kΩ / < 100 nF	
Response time		< 2 ms, 1 ms typ.	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.2 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.25 % fs	
Shock		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
Vibration		20 g, 15 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1 metal thread	
Pressure connection(4)		G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread
EX Mark		Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db	
Output——Type,ID No.	2-wire 4...20 mA current output	GPT-528-003B-9 , A5713100	GPT-52B-003B-9 , A5A13100
	2-wire 4...20 mA current output(EX)	GPT-528-003B-B , A5713102	GPT-52B-003B-B , A5A13102
	3-wire 0...10 V voltage output	GPT-528-003B-A , A5713101	GPT-52B-003B-A , A5A13101

(1)Other types please see "type selection guide" or ask relative PM

(2)Types with absolute pressure measuring haven't provided at present, ask PM if necessory

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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GPT-528-004B-...	GPT-52B-004B-...	GPT-528-006B-...	GPT-52B-006B-...
Liquids, gases and refrigerants (incl. ammonia)		Liquids, gases and refrigerants (incl. ammonia)	
0 ... 4 bar , Relative (2)		0 ... 6 bar , Relative (2)	
20 bar / 40 bar		30 bar / 60 bar	
7 ... 33 VDC / 10 ...30 VDC 12 ... 33 VDC		7 ... 33 VDC / 10 ...30 VDC 12 ... 33 VDC	
-40 ... +135 °C		-40 ... +135 °C	
IP67		IP67	
Stainless steel 1.4404 / AISI 316L Stainless steel Welded without sealing parts		Stainless steel 1.4404 / AISI 316L Stainless steel Welded without sealing parts	
< 23 mA / < 20 mA < 7 mA		< 23 mA / < 20 mA < 7 mA	
< 1.3 kΩ / < 1 kΩ >10 kΩ / < 100 nF		< 1.3 kΩ / < 1 kΩ >10 kΩ / < 100 nF	
< 2 ms, 1 ms typ.		< 2 ms, 1 ms typ.	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.2 % fs /10 K		≤ ± 0.2 % fs /10 K	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.25 % fs		≤ ± 0.25 % fs	
100 g, 11 ms half sine wave, acc. IEC 60068-2-27		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6		20 g, 15 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Connector M12x1 metal thread		Connector M12x1 metal thread	
G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread	G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread
Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db		Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db	
GPT-528-004B-9 , A5714100	GPT-52B-004B-9 , A5A14100	GPT-528-006B-9 , A5715100	GPT-52B-006B-9 , A5A15100
GPT-528-004B-B , A5714102	GPT-52B-004B-B , A5A14102	GPT-528-006B-B , A5715102	GPT-52B-006B-B , A5A15102
GPT-528-004B-A , A5714101	GPT-52B-004B-A , A5A14101	GPT-528-006B-A , A5715101	GPT-52B-003B-A , A5A15101

(1)Other types please see "type selection guide" or ask relative PM

(2)Types with absolute pressure measuring haven't provided at present, ask PM if necessory

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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- Certified :

- Connector : page 31
- Accessories : page 31
- dimensional drawing : page 32
- Wiring diagram : page 33
- ------

Pressure transmitter type (1)		GPT-528-010B-...	GPT-52B-010B-...
Medium		Liquids, gases and refrigerants (incl. ammonia)	
Pressure range		0 ... 10 bar, Relative (2)	
Max. allowable pressure		30 bar / 60 bar	
Power supply	4...20 mA Current output / Ex	7 ... 33 VDC / 10 ...30 VDC	
	0...10 V Voltage output	12 ... 33 VDC	
Temperature		-40 ... +135 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	Stainless steel	
	Sealing material	Welded without sealing parts	
Operation Current	4...20 mA Current output / Ex	< 23 mA / < 20 mA	
	0...10 V Voltage output	< 7 mA	
Load risistanse	4...20 mA Current output / Ex	< 1.3 kΩ / < 1 kΩ	
	0...10 V Voltage output	>10 kΩ / < 100 nF	
Response time		< 2 ms, 1 ms typ.	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.2 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.25 % fs	
Shock		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
Vibration		20 g, 15 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1 metal thread	
Pressure connection(4)		G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread
EX Mark		Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db	
Output——Type, ID No.	2-wire 4...20 mA current output	GPT-528-010B-9 , A5716100	GPT-52B-010B-9 , A5A16100
	2-wire 4...20 mA current output(EX)	GPT-528-010B-B , A5716102	GPT-52B-010B-B , A5A16102
	3-wire 0...10 V voltage output	GPT-528-010B-A , A5716101	GPT-52B-010B-A , A5A16101

(1)Other types please see "type selection guide" or ask relative PM
(2)Types with absolute pressure measuring haven't provided at present, ask PM if necessory
(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time
(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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52 Series Relative pressure transmitter for shipbuilding

GPT-528-016B-...	GPT-52B-016B-...	GPT-528-025B-...	GPT-52B-025B-...
Liquids, gases and refrigerants (incl. ammonia)		Liquids, gases and refrigerants (incl. ammonia)	
0 ... 16 bar , Relative (2)		0 ... 25 bar , Relative (2)	
48 bar / 96 bar		75 bar / 150 bar	
7 ... 33 VDC / 10 ...30 VDC 12 ... 33 VDC		7 ... 33 VDC / 10 ...30 VDC 12 ... 33 VDC	
-40 ... +135 °C		-40 ... +135 °C	
IP67		IP67	
Stainless steel 1.4404 / AISI 316L Stainless steel Welded without sealing parts		Stainless steel 1.4404 / AISI 316L Stainless steel Welded without sealing parts	
< 23 mA / < 20 mA < 7 mA		< 23 mA / < 20 mA < 7 mA	
< 1.3 kΩ / < 1 kΩ >10 kΩ / < 100 nF		< 1.3 kΩ / < 1 kΩ >10 kΩ / < 100 nF	
< 2 ms, 1 ms typ.		< 2 ms, 1 ms typ.	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.2 % fs /10 K		≤ ± 0.2 % fs /10 K	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.25 % fs		≤ ± 0.25 % fs	
100 g, 11 ms half sine wave, acc. IEC 60068-2-27		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6		20 g, 15 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Connector M12x1 metal thread		Connector M12x1 metal thread	
G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread	G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread
Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db		Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db	
GPT-528-016B-9 , A5717100	GPT-52B-016B-9 , A5A17100	GPT-528-025B-9 , A5718100	GPT-52B-025B-9 , A5A18100
GPT-528-016B-B , A5717102	GPT-52B-016B-B , A5A17102	GPT-528-025B-B , A5718102	GPT-52B-025B-B , A5A18102
GPT-528-016B-A , A5717101	GPT-52B-016B-A , A5A17101	GPT-528-025B-A , A5718101	GPT-52B-025B-A , A5A18101

(1)Other types please see "type selection guide" or ask relative PM

(2)Types with absolute pressure measuring haven't provided at present, ask PM if necessary

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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- Certified :

- Connector : page 32
- Accessories : page 32
- dimensional drawing : page 33
- Wiring diagram : page 34
- ------

Pressure transmitter type (1)		GPT-528-040B-...	GPT-52B-040B-...
Medium		Liquids, gases and refrigerants (incl. ammonia)	
Pressure range		0 ... 40 bar, Relative (2)	
Max. allowable pressure		120 bar / 240 bar	
Power supply	4...20 mA Current output / Ex	7 ... 33 VDC / 10 ...30 VDC	
	0...10 V Voltage output	12 ... 33 VDC	
Temperature		-40 ... +135 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	Stainless steel	
	Sealing material	Welded without sealing parts	
Operation Current	4...20 mA Current output / Ex	< 23 mA / < 20 mA	
	0...10 V Voltage output	< 7 mA	
Load risistanse	4...20 mA Current output / Ex	< 1.3 kΩ / < 1 kΩ	
	0...10 V Voltage output	>10 kΩ / < 100 nF	
Response time		< 2 ms, 1 ms typ.	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.2 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.25 % fs	
Shock		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
Vibration		20 g, 15 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1 metal thread	
Pressure connection(4)		G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread
EX Mark		Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db	
Output——Type, Order No.	2-wire 4...20 mA current output	GPT-528-040B-9 , A5719100	GPT-52B-040B-9 , A5A19100
	2-wire 4...20 mA current output(EX)	GPT-528-040B-B , A5719102	GPT-52B-040B-B , A5A19102
	3-wire 0...10 V voltage output	GPT-528-040B-A , A5719101	GPT-52B-040B-A , A5A19101

(1)Other types please see "type selection guide" or ask relative PM

(2)Types with absolute pressure measuring haven't provided at present, ask PM if necessory

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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52 Series Relative pressure transmitter for shipbuilding

GPT-528-070B-...	GPT-52B-070B-...	GPT-528-100B-...	GPT-52B-100B-...
Liquids, gases and refrigerants (incl. ammonia)		Liquids, gases and refrigerants (incl. ammonia)	
0 ... 60 bar , Relative (2)		0 ... 100 bar , Relative (2)	
180 bar / 360 bar		300 bar / 600 bar	
7 ... 33 VDC / 10 ...30 VDC 12 ... 33 VDC		7 ... 33 VDC / 10 ...30 VDC 12 ... 33 VDC	
-40 ... +135 °C		-40 ... +135 °C	
IP67		IP67	
Stainless steel 1.4404 / AISI 316L Stainless steel Welded without sealing parts		Stainless steel 1.4404 / AISI 316L Stainless steel Welded without sealing parts	
< 23 mA / < 20 mA < 7 mA		< 23 mA / < 20 mA < 7 mA	
< 1.3 kΩ / < 1 kΩ >10 kΩ / < 100 nF		< 1.3 kΩ / < 1 kΩ >10 kΩ / < 100 nF	
< 2 ms, 1 ms typ.		< 2 ms, 1 ms typ.	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.2 % fs /10 K		≤ ± 0.2 % fs /10 K	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.25 % fs		≤ ± 0.25 % fs	
100 g, 11 ms half sine wave, acc. IEC 60068-2-27		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6		20 g, 15 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Connector M12x1 metal thread		Connector M12x1 metal thread	
G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread	G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread
Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db		Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db	
GPT-528-070B-9 , A571A100	GPT-52B-070B-9 , A5A1A100	GPT-528-100B-9 , A571B100	GPT-52B-100B-9 , A5A1B100
GPT-528-070B-B , A571A102	GPT-52B-070B-B , A5A1A102	GPT-528-100B-B , A571B102	GPT-52B-100B-B , A5A1B102
GPT-528-070B-A , A571A101	GPT-52B-070B-A , A5A1A101	GPT-528-100B-A , A571B101	GPT-52B-100B-A , A5A1B101

(1)Other types please see "type selection guide" or ask relative PM

(2)Types with absolute pressure measuring haven't provided at present, ask PM if necessory

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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52 Series Relative pressure transmitter for shipbuilding

GPT-52...

- Compact, rugged construction
- Welded without sealing parts
- The thick stainless steel pressure measuring element
- Excellent EMC capacity
- Suitable for industrial applications , the most important certifications for the shipbuilding industry.
- Certified :

- Connector : page 31
- Accessories : page 31
- dimensional drawing : page 32
- Wiring diagram : page 33
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Pressure transmitter type (1)		GPT-528-160B-...	GPT-52B-160B-...
Medium		Liquids, gases and refrigerants (incl. ammonia)	
Pressure range		0 ... 160 bar, Relative (2)	
Max. allowable pressure		480 bar / 960 bar	
Power supply	4...20 mA Current output / Ex	7 ... 33 VDC / 10 ...30 VDC	
	0...10 V Voltage output	12 ... 33 VDC	
Temperature		-40 ... +135 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	Stainless steel	
	Sealing material	Welded without sealing parts	
Operation Current	4...20 mA Current output / Ex	< 23 mA / < 20 mA	
	0...10 V Voltage output	< 7 mA	
Load risistanse	4...20 mA Current output / Ex	< 1.3 kΩ / < 1 kΩ	
	0...10 V Voltage output	>10 kΩ / < 100 nF	
Response time		< 2 ms, 1 ms typ.	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.2 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.25 % fs	
Shock		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
Vibration		20 g, 15 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1 metal thread	
Pressure connection(4)		G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread
EX Mark		Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db	
Output——Type,ID No.	2-wire 4...20 mA current output	GPT-528-160B-9 , A571C100	GPT-52B-160B-9 , A5A1C100
	2-wire 4...20 mA current output(EX)	GPT-528-160B-B , A571C102	GPT-52B-160B-B , A5A1C102
	3-wire 0...10 V voltage output	GPT-528-160B-A , A571C101	GPT-52B-160B-A , A5A1C101

(1)Other types please see "type selection guide" or ask relative PM
(2)Types with absolute pressure measuring haven't provided at present, ask PM if necessory
(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time
(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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52 Series Relative pressure transmitter for shipbuilding

GPT-528-250B-...	GPT-52B-250B-...	GPT-528-400B-...	GPT-52B-400B-...
Liquids, gases and refrigerants (incl. ammonia)		Liquids, gases and refrigerants (incl. ammonia)	
0 ... 250 bar, Relative (2)		0 ... 400 bar, Relative (2)	
750 bar / 1500 bar		1200 bar / 2400 bar	
7 ... 33 VDC / 10 ...30 VDC 12 ... 33 VDC		7 ... 33 VDC / 10 ...30 VDC 12 ... 33 VDC	
-40 ... +135 °C		-40 ... +135 °C	
IP67		IP67	
Stainless steel 1.4404 / AISI 316L Stainless steel Welded without sealing parts		Stainless steel 1.4404 / AISI 316L Stainless steel Welded without sealing parts	
< 23 mA / < 20 mA < 7 mA		< 23 mA / < 20 mA < 7 mA	
< 1.3 kΩ / < 1 kΩ >10 kΩ / < 100 nF		< 1.3 kΩ / < 1 kΩ >10 kΩ / < 100 nF	
< 2 ms, 1 ms typ.		< 2 ms, 1 ms typ.	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.2 % fs /10 K		≤ ± 0.2 % fs /10 K	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.25 % fs		≤ ± 0.25 % fs	
100 g, 11 ms half sine wave, acc. IEC 60068-2-27		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6		20 g, 15 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Connector M12x1 metal thread		Connector M12x1 metal thread	
G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread	G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread
Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db		Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db	
GPT-528-250B-9 , A571D100	GPT-52B-250B-9 , A5A1D100	GPT-528-400B-9 , A571E100	GPT-52B-400B-9 , A5A1E100
GPT-528-250B-B , A571D102	GPT-52B-250B-B , A5A1D102	GPT-528-400B-B , A571E102	GPT-52B-400B-B , A5A1E102
GPT-528-250B-A , A571D101	GPT-52B-250B-A , A5A1D101	GPT-528-400B-A , A571E101	GPT-52B-400B-A , A5A1E101

(1)Other types please see "type selection guide" or ask relative PM

(2)Types with absolute pressure measuring haven't provided at present, ask PM if necessory

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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52 Series Relative pressure transmitter for shipbuilding

GPT-52...

- Compact, rugged construction
- Welded without sealing parts
- The thick stainless steel pressure measuring element
- Excellent EMC capacity
- Suitable for industrial applications , the most important certifications for the shipbuilding industry.
- Certified :

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- Accessories : page 31
- dimensional drawing : page 32
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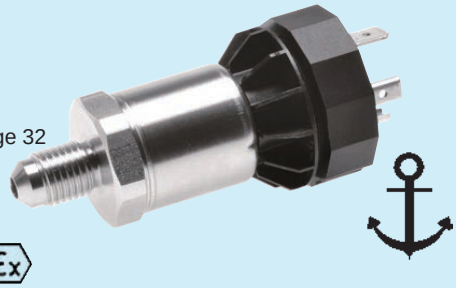

Pressure transmitter type (1)		GPT-528-600B-...	GPT-52B-600B-...
Medium		Liquids, gases and refrigerants (incl. ammonia)	
Pressure range		0 ... 600 bar, Relative (2)	
Max. allowable pressure		1500 bar / 2500 bar	
Power supply	4...20 mA Current output / Ex	7 ... 33 VDC / 10 ...30 VDC	
	0...10 V Voltage output	12 ... 33 VDC	
Temperature		-40 ... +135 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	Stainless steel	
	Sealing material	Welded without sealing parts	
Operation Current	4...20 mA Current output / Ex	< 23 mA / < 20 mA	
	0...10 V Voltage output	< 7 mA	
Load risistanse	4...20 mA Current output / Ex	< 1.3 kΩ / < 1 kΩ	
	0...10 V Voltage output	>10 kΩ / < 100 nF	
Response time		< 2 ms, 1 ms typ.	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.2 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.25 % fs	
Shock		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
Vibration		20 g, 15 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1 metal thread	
Pressure connection(4)		G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread
EX Mark		Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db	
Output——Type, ID No.	2-wire 4...20 mA current output	GPT-528-600B-9 , A571F100	GPT-52B-600B-9 , A5A1F100
	2-wire 4...20 mA current output(EX)	GPT-528-600B-B , A571F102	GPT-52B-600B-B , A5A1F102
	3-wire 0...10 V voltage output	GPT-528-600B-A , A571F101	GPT-52B-600B-A , A5A1F101

(1)Other types please see "type selection guide" or ask relative PM

(2)Types with absolute pressure measuring haven't provided at present, ask PM if necessory

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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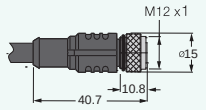
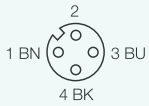
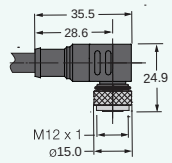
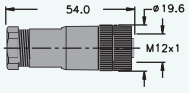
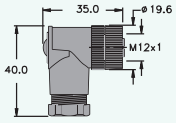
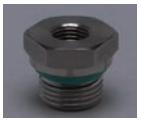
Electrical connections (5)

Precast cable		Pin Number	Cable Length	ID No.	Type
M12x1 Straight Male Connector 		3	2m	10011000	EK3-2M/P00
			5m	10011001	EK3-5M/P00
			10m	10011002	EK3-10M/P00
M12x1 Angle Male Connector 		3	2m	10011030	ELK3-2M/P00
			5m	10011031	ELK3-5M/P00
			10m	10011032	ELK3-10M/P00

Swift connector		Pin Number	Cable diameter	Outlet	ID No.	Type
M12x1 Straight Female Connector 		4	4-6 mm	PG7	10091000	EK4112-0/7
			6-8 mm	PG9	10091001	EK4112-0/9
M12x1 Angle Female Connector 	PBT , Black / Brass nickel plated, Spring-type terminals 85°C , 250 V , 4 A	4	4-6 mm	PG7	10091010	ELK4112-0/7
			6-8 mm	PG9	10091011	ELK4112-0/9

Accessories (6)

	Instruction	Type , ID No.
	Thread conversion device , G1/4" Inside to G1/4" Outside thread Shell material: Stainless steel	GPA-G1/4F-G1/4M-A4 , B5130110
	Thread conversion device , G1/4" Inside to G1/2" Outside thread Shell material: Stainless steel	GPA-G1/4F-G1/2M-A4 , B5140110
	Thread conversion device , G1/4" Inside thread to M20X1.5 Outside thread, Shell material: Stainless steel	GPA-G1/4F-M20X1.5M-A4 , B5180110

(5)Other connector types please ask connector product manager

(6)Other mounting accessories types with different thread please ask relative product manager

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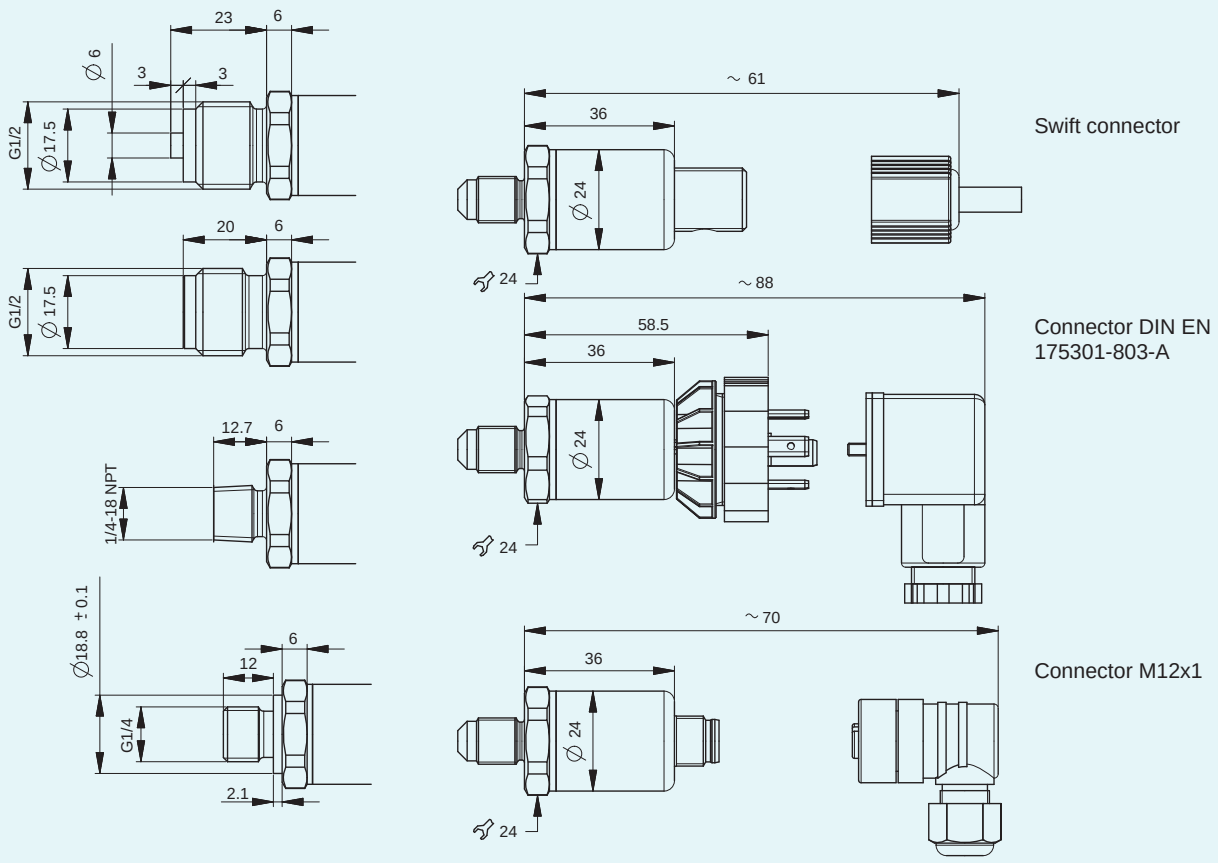
Dimensional drawing



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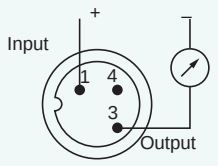
Wiring diagram

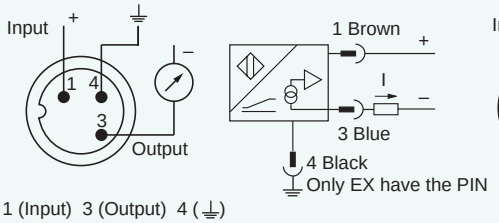
Connector M12x1

2 wire (4 ... 20 mA , current output)



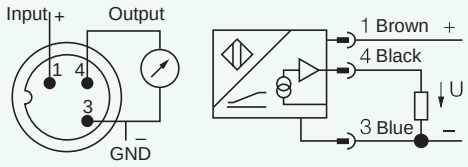
1 (Input) 3 (Output)

2 wire +GND (4 ... 20 mA , current output , EX)



1 (Input) 3 (Output) 4 (⏚)

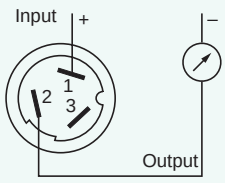
3 wire (0-10 V , voltage output)



1 (Input) 4 (Output) 3 (GND)

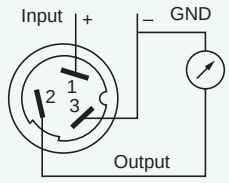
Swift connector

2 wire (4 ... 20 mA , current output)



1 (Input) 2 (Output)

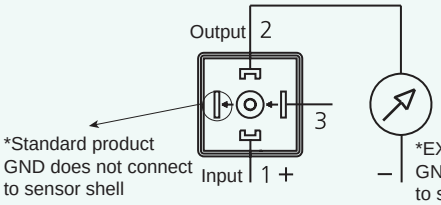
3 wire (0-10 V , voltage output)



1 (Input) 2 (Output) 3 (GND)

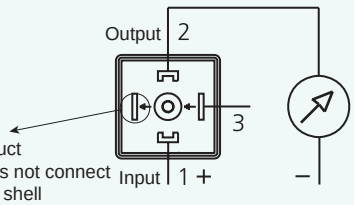
Connector DIN EN 175301-803-A

2 wire (4 ... 20 mA , current output)



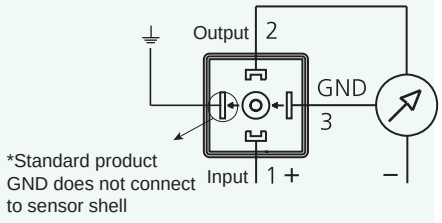
1 (Input) 2 (Output)

2 wire +GND (4 ... 20 mA , current output , EX)



1 (Input) 2 (Output)

3 wire (0-10 V , voltage output)



1 (Input) 2 (Output) 3 (GND)

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57 Series Relative pressure transmitter for shipbuilding

GPT-57...

- Compact, rugged construction
- Welded without sealing parts
- The thick stainless steel pressure measuring element
- Excellent EMC capacity
- Suitable for industrial applications , the most important certifications for the shipbuilding industry.
- Certified :

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- Accessories : page 41
- dimensional drawing : page 42
- Wiring diagram : page 43
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Pressure transmitter type (1)		GPT-578-001B-...	GPT-57B-001B-...
Medium		Liquids and gases	
Pressure range		0 ... 1 bar, Relative (2)	
Max. allowable pressure		3 bar / 3 bar	
Power supply	4...20 mA Current output / Ex	7 ... 33 VDC / 10 ...30 VDC	
	0...10 V Voltage output	12 ... 33 VDC	
Temperature		-15 ... +125 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	Ceramic Al2O3 (96%)	
	Sealing material	FPM, EPDM, NBR	
Operation Current	4...20 mA Current output / Ex	< 23 mA / < 20 mA	
	0...10 V Voltage output	< 7 mA	
Load risistanse	4...20 mA Current output / Ex	< 1.3 kΩ / < 1 kΩ	
	0...10 V Voltage output	>10 kΩ / < 100 nF	
Response time		< 2 ms, 1 ms typ.	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.2 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.25 % fs	
Shock		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
Vibration		20 g, 15 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1 metal thread	
Pressure connection(4)		G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread
EX Mark		Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db	
Output——Type, ID No.	2-wire 4...20 mA current output	GPT-578-001B-9 , A5721100	GPT-57B-001B-9 , A5A21100
	2-wire 4...20 mA current output(EX)	GPT-578-001B-B , A5721102	GPT-57B-001B-B , A5A21102
	3-wire 0...10 V voltage output	GPT-578-001B-A , A5721101	GPT-57B-001B-A , A5A21101

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 1/1.6/2.5/4/6/10/16 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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57 Series Relative pressure transmitter for shipbuilding

GPT-578-002B-...	GPT-57B-002B-...	GPT-578-003B-...	GPT-57B-003B-...
Liquids and gases		Liquids and gases	
0 ... 1.6 bar, Relative (2)		0 ... 2.5 bar, Relative (2)	
4.8 bar / 4.8 bar		7.5 bar / 7.5 bar	
7 ... 33 VDC / 10 ...30 VDC 12 ... 33 VDC		7 ... 33 VDC / 10 ...30 VDC 12 ... 33 VDC	
-15 ... +125 °C		-15 ... +125 °C	
IP67		IP67	
Stainless steel 1.4404 / AISI 316L Ceramic Al2O3 (96%) FPM, EPDM, NBR		Stainless steel 1.4404 / AISI 316L Ceramic Al2O3 (96%) FPM, EPDM, NBR	
< 23 mA / < 20 mA < 7 mA		< 23 mA / < 20 mA < 7 mA	
< 1.3 kΩ / < 1 kΩ >10 kΩ / < 100 nF		< 1.3 kΩ / < 1 kΩ >10 kΩ / < 100 nF	
< 2 ms, 1 ms typ.		< 2 ms, 1 ms typ.	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.2 % fs /10 K		≤ ± 0.2 % fs /10 K	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.25 % fs		≤ ± 0.25 % fs	
100 g, 11 ms half sine wave, acc. IEC 60068-2-27		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6		20 g, 15 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Connector M12x1 metal thread		Connector M12x1 metal thread	
G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread	G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread
Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db		Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db	
GPT-578-002B-9 , A5722100 GPT-578-002B-B , A5722102 GPT-578-002B-A , A5722101	GPT-57B-002B-9 , A5A22100 GPT-57B-002B-B , A5A22102 GPT-57B-002B-A , A5A22101	GPT-578-003B-9 , A5723100 GPT-578-003B-B , A5723102 GPT-578-003B-A , A5723101	GPT-57B-003B-9 , A5A23100 GPT-57B-003B-B , A5A23102 GPT-57B-003B-A , A5A23101

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 1/1.6/2.5/4/6/10/16 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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57 Series Relative pressure transmitter for shipbuilding

GPT-57...

- Compact, rugged construction
- Welded without sealing parts
- The thick stainless steel pressure measuring element
- Excellent EMC capacity
- Suitable for industrial applications , the most important certifications for the shipbuilding industry.
- Certified :

- Connector : page 41
- Accessories : page 41
- dimensional drawing : page 42
- Wiring diagram : page 43
- ------

Pressure transmitter type (1)		GPT-578-004B-...	GPT-57B-004B-...
Medium		Liquids and gases	
Pressure range		0 ... 4 bar, Relative (2)	
Max. allowable pressure		12 bar / 12 bar	
Power supply	4...20 mA Current output / Ex	7 ... 33 VDC / 10 ...30 VDC	
	0...10 V Voltage output	12 ... 33 VDC	
Temperature		-15 ... +125 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	Ceramic Al2O3 (96%)	
	Sealing material	FPM, EPDM, NBR	
Operation Current	4...20 mA Current output / Ex	< 23 mA / < 20 mA	
	0...10 V Voltage output	< 7 mA	
Load risistanse	4...20 mA Current output / Ex	< 1.3 kΩ / < 1 kΩ	
	0...10 V Voltage output	>10 kΩ / < 100 nF	
Response time		< 2 ms, 1 ms typ.	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.2 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.25 % fs	
Shock		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
Vibration		20 g, 15 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1 metal thread	
Pressure connection(4)		G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread
EX Mark		Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db	
Output——Type, ID No.	2-wire 4...20 mA current output	GPT-578-004B-9 , A5724100	GPT-57B-004B-9 , A5A24100
	2-wire 4...20 mA current output(EX)	GPT-578-004B-B , A5724102	GPT-57B-004B-B , A5A24102
	3-wire 0...10 V voltage output	GPT-578-004B-A , A5724101	GPT-57B-004B-A , A5A24101

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 1/1.6/2.5/4/6/10/16 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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57 Series Relative pressure transmitter for shipbuilding

GPT-578-006B-...	GPT-57B-006B-...	GPT-578-010B-...	GPT-57B-010B-...
Liquids and gases		Liquids and gases	
0 ... 6 bar, Relative (2)		0 ... 10 bar, Relative (2)	
18 bar / 18 bar		25 bar / 25 bar	
7 ... 33 VDC / 10 ...30 VDC 12 ... 33 VDC		7 ... 33 VDC / 10 ...30 VDC 12 ... 33 VDC	
-15 ... +125 °C		-15 ... +125 °C	
IP67		IP67	
Stainless steel 1.4404 / AISI 316L Ceramic Al2O3 (96%) FPM, EPDM, NBR		Stainless steel 1.4404 / AISI 316L Ceramic Al2O3 (96%) FPM, EPDM, NBR	
< 23 mA / < 20 mA < 7 mA		< 23 mA / < 20 mA < 7 mA	
< 1.3 kΩ / < 1 kΩ >10 kΩ / < 100 nF		< 1.3 kΩ / < 1 kΩ >10 kΩ / < 100 nF	
< 2 ms, 1 ms typ.		< 2 ms, 1 ms typ.	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.2 % fs /10 K		≤ ± 0.2 % fs /10 K	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.25 % fs		≤ ± 0.25 % fs	
100 g, 11 ms half sine wave, acc. IEC 60068-2-27		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6		20 g, 15 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Connector M12x1 metal thread		Connector M12x1 metal thread	
G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread	G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread
Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db		Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db	
GPT-578-006B-9 , A5725100 GPT-578-006B-B , A5725102 GPT-578-006B-A , A5725101	GPT-57B-006B-9 , A5A25100 GPT-57B-006B-B , A5A25102 GPT-57B-006B-A , A5A25101	GPT-578-010B-9 , A5726100 GPT-578-010B-B , A5726102 GPT-578-010B-A , A5726101	GPT-57B-010B-9 , A5A26100 GPT-57B-010B-B , A5A26102 GPT-57B-010B-A , A5A26101

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 1/1.6/2.5/4/6/10/16 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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GPT-57...

- Compact, rugged construction
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- The thick stainless steel pressure measuring element
- Excellent EMC capacity
- Suitable for industrial applications , the most important certifications for the shipbuilding industry.
- Certified :

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- Accessories : page 41
- dimensional drawing : page 42
- Wiring diagram : page 43
- ------

Pressure transmitter type (1)		GPT-578-016B-...	GPT-57B-016B-...
Medium		Liquids and gases	
Pressure range		0 ... 16 bar, Relative (2)	
Max. allowable pressure		40 bar / 40 bar	
Power supply	4...20 mA Current output / Ex	7 ... 33 VDC / 10 ...30 VDC	
	0...10 V Voltage output	12 ... 33 VDC	
Temperature		-15 ... +125 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	Ceramic Al2O3 (96%)	
	Sealing material	FPM, EPDM, NBR	
Operation Current	4...20 mA Current output / Ex	< 23 mA / < 20 mA	
	0...10 V Voltage output	< 7 mA	
Load risistanse	4...20 mA Current output / Ex	< 1.3 kΩ / < 1 kΩ	
	0...10 V Voltage output	>10 kΩ / < 100 nF	
Response time		< 2 ms, 1 ms typ.	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.2 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.25 % fs	
Shock		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
Vibration		20 g, 15 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1 metal thread	
Pressure connection(4)		G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread
EX Mark		Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db	
Output——Type, ID No.	2-wire 4...20 mA current output	GPT-578-016B-9 , A5727100	GPT-57B-016B-9 , A5A27100
	2-wire 4...20 mA current output(EX)	GPT-578-016B-B , A5727102	GPT-57B-016B-B , A5A27102
	3-wire 0...10 V voltage output	GPT-578-016B-A , A5727101	GPT-57B-016B-A , A5A27101

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 1/1.6/2.5/4/6/10/16 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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57 Series Relative pressure transmitter for shipbuilding

GPT-578-025B-...	GPT-57B-025B-...	GPT-578-040B-...	GPT-57B-040B-...
Liquids and gases		Liquids and gases	
0 ... 25 bar, Relative (2)		0 ... 40 bar, Relative (2)	
62.5 bar / 62.5 bar		100 bar / 100 bar	
7 ... 33 VDC / 10 ...30 VDC 12 ... 33 VDC		7 ... 33 VDC / 10 ...30 VDC 12 ... 33 VDC	
-15 ... +125 °C		-15 ... +125 °C	
IP67		IP67	
Stainless steel 1.4404 / AISI 316L Ceramic Al2O3 (96%) FPM, EPDM, NBR		Stainless steel 1.4404 / AISI 316L Ceramic Al2O3 (96%) FPM, EPDM, NBR	
< 23 mA / < 20 mA < 7 mA		< 23 mA / < 20 mA < 7 mA	
< 1.3 kΩ / < 1 kΩ >10 kΩ / < 100 nF		< 1.3 kΩ / < 1 kΩ >10 kΩ / < 100 nF	
< 2 ms, 1 ms typ.		< 2 ms, 1 ms typ.	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.2 % fs /10 K		≤ ± 0.2 % fs /10 K	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.25 % fs		≤ ± 0.25 % fs	
100 g, 11 ms half sine wave, acc. IEC 60068-2-27		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
20 g, 2 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6		20 g, 15 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Connector M12x1 metal thread		Connector M12x1 metal thread	
G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread	G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread
Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db		Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db	
GPT-578-025B-9 , A5728100 GPT-578-025B-B , A5728102 GPT-578-025B-A , A5728101	GPT-57B-025B-9 , A5A28100 GPT-57B-025B-B , A5A28102 GPT-57B-025B-A , A5A28101	GPT-578-040B-9 , A5729100 GPT-578-040B-B , A5729102 GPT-578-040B-A , A5729101	GPT-57B-040B-9 , A5A29100 GPT-57B-040B-B , A5A29102 GPT-57B-040B-A , A5A29101

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 1/1.6/2.5/4/6/10/16 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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- Compact, rugged construction
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- The thick stainless steel pressure measuring element
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- Certified :

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- Accessories : page 42
- dimensional drawing : page 43
- Wiring diagram : page 44

Pressure transmitter type (1)		GPT-578-070B-...	GPT-57B-070B-...
Medium		Liquids and gases	
Pressure range		0 ... 60 bar, Relative (2)	
Max. allowable pressure		150 bar / 150 bar	
Power supply	4...20 mA Current output / Ex	7 ... 33 VDC / 10 ...30 VDC	
	0...10 V Voltage output	12 ... 33 VDC	
Temperature		-15 ... +125 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	Ceramic Al2O3 (96%)	
	Sealing material	FPM, EPDM, NBR	
Operation Current	4...20 mA Current output / Ex	< 23 mA / < 20 mA	
	0...10 V Voltage output	< 7 mA	
Load risistanse	4...20 mA Current output / Ex	< 1.3 kΩ / < 1 kΩ	
	0...10 V Voltage output	>10 kΩ / < 100 nF	
Response time		< 2 ms, 1 ms typ.	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.2 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.25 % fs	
Shock		100 g, 11 ms half sine wave, acc. IEC 60068-2-27	
Vibration		20 g, 15 ... 2000 Hz with amplitude μ 15 mm, acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1 metal thread	
Pressure connection(4)		G1/4" Outside thread, DIN 3852 E	G1/2" Outside thread Pressure gauge thread
EX Mark		Ex II 1/2 G Ex ia IIC T4 Ga/Gb ; Ex II 1/2 D Ex ia IIC T125ºC Da/Db	
Output——Type, ID No.	2-wire 4...20 mA current output	GPT-578-070B-9 , A572A100	GPT-57B-070B-9 , A5A2A100
	2-wire 4...20 mA current output(EX)	GPT-578-070B-B , A572A102	GPT-57B-070B-B , A5A2A102
	3-wire 0...10 V voltage output	GPT-578-070B-A , A572A101	GPT-57B-070B-A , A5A2A101

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 1/1.6/2.5/4/6/10/16 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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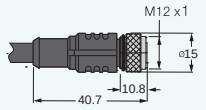
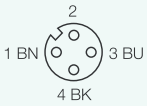
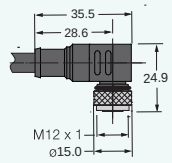
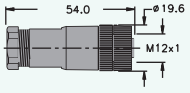
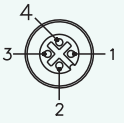
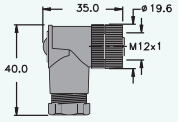
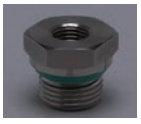
Electrical connections (5)

Precast cable		Pin Number	Cable Length	ID No.	Type
M12x1 Straight Male Connector 		3	2m	10011000	EK3-2M/P00
			5m	10011001	EK3-5M/P00
			10m	10011002	EK3-10M/P00
M12x1 Angle Male Connector 		3	2m	10011030	ELK3-2M/P00
			5m	10011031	ELK3-5M/P00
			10m	10011032	ELK3-10M/P00

Swift connector		Pin Number	Cable diameter	Outlet	ID No.	Type
M12x1 Straight Female Connector 		4	4-6 mm	PG7	10091000	EK4112-0/7
			6-8 mm	PG9	10091001	EK4112-0/9
M12x1 Angle Female Connector 	PBT , Black / Brass nickel plated, Spring-type terminals 85°C , 250 V , 4 A	4	4-6 mm	PG7	10091010	ELK4112-0/7
			6-8 mm	PG9	10091011	ELK4112-0/9

Accessories (6)

	Instruction	Type, ID No.
	Thread conversion device , G1/4" Inside to G1/4" Outside thread Shell material: Stainless steel	GPA-G1/4F-G1/4M-A4 , B5130110
	Thread conversion device , G1/4" Inside to G1/2" Outside thread Shell material: Stainless steel	GPA-G1/4F-G1/2M-A4 , B5140110
	Thread conversion device , G1/4" Inside thread to M20X1.5 Outside thread, Shell material: Stainless steel	GPA-G1/4F-M20X1.5M-A4 , B5180110

(5)Other connector types please ask connector product manager

(6)Other mounting accessories types with different thread please ask relative product manager

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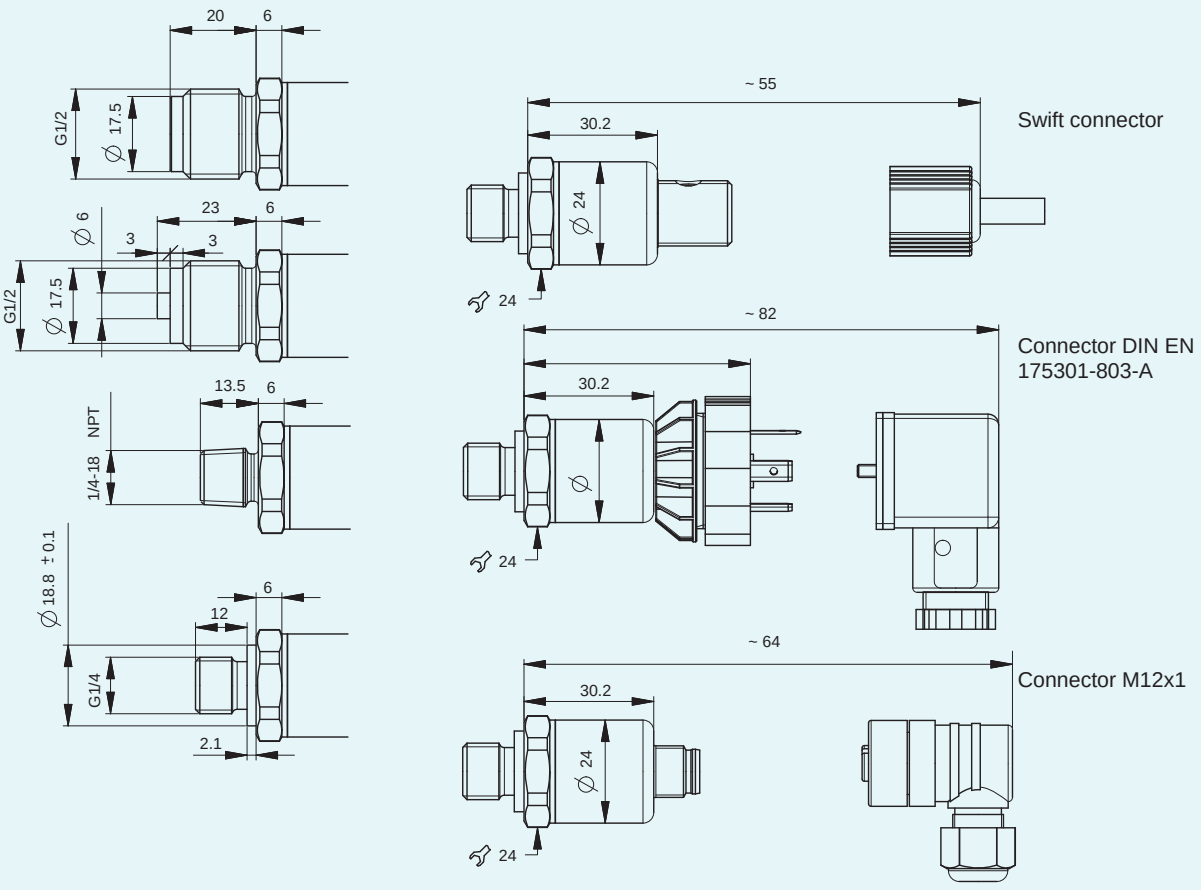
Dimensional drawing



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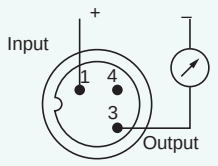
Wiring diagram

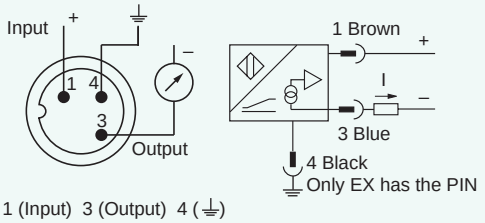
Connector M12x1

2 wire (4 ... 20 mA , current output)



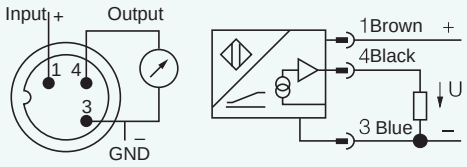
1 (Input) 3 (Output)

2 wire +GND (4 ... 20 mA , current output , EX)



1 (Input) 3 (Output) 4 (⏚)

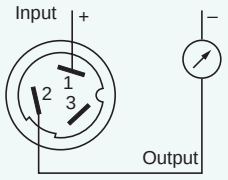
3 wire (0-10 V , voltage output)



1 (Input) 4 (Output) 3 (GND)

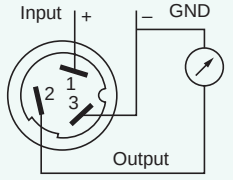
Swift connector

2 wire (4 ... 20 mA , current output)



1 (Input) 2 (Output)

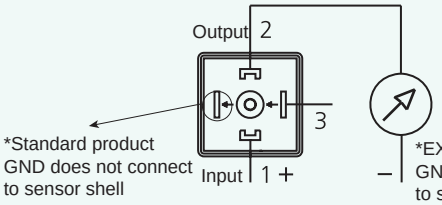
3 wire (0-10 V , voltage output)



1 (Input) 2 (Output) 3 (GND)

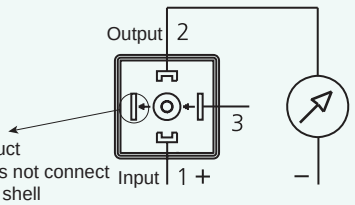
Connector DIN EN 175301-803-A

2 wire (4 ... 20 mA , current output)



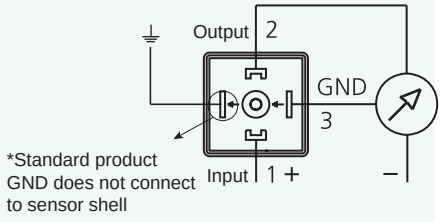
1 (Input) 2 (Output)

2 wire +GND (4 ... 20 mA , current output , EX)



1 (Input) 2 (Output)

3 wire (0-10 V , voltage output)



1 (Input) 2 (Output) 3 (GND)

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- Effective overload protection due to chemically eteched chip diaphragm and specially designed glass gland
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- Welded construction provides 100% sealing against media
- Certified : CE Ex

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- dimensional drawing : page 56
- Wiring diagram : page 57
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Pressure transmitter type (1)		GPT-608-06mB-...	GPT-60B-06mB-...
Medium		Liquids and gases	
Pressure range		0 ... 0.6 bar (600mbar), Relative (2)	
Max. allowable pressure		3 bar / > 200 bar	
Power supply	4...20 mA Current output / Ex	9 ... 33 VDC / 9 ... 28 VDC	
	0...10 V Voltage output	12 ... 30 VDC	
Temperature		-40 ... +150 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	Stainless steel 1.4404 / AISI 316L	
	Sealing material	FPM	
Operation Current	4...20 mA Current output / Ex	< 20 mA	
	0...10 V Voltage output	< 4 mA	
Load risistanse	4...20 mA Current output / Ex	< 1.2 kΩ / < 0.95 kΩ	
	0...10 V Voltage output	>10 kΩ	
Response time		< 1 ms	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.3 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.3 % fs	
Shock		100 g (pulse duration 6 ms), acc. EN 60068-2-27	
Vibration		10 g (4 ... 2000 Hz, oscillation μ 10 mmpp), acc. EN 60068-2-6	
Electrical connection(3)		PUR Cable , Standard 2m	
Pressure connection(4)		G1/4" Outside thread, Flush diaphragm	G1/2" Outside thread, Flush diaphragm
EX Mark——Gas ; Powder		II 1G Ex ia IIB/IIC T3 ... T6 ; II 1D Ex iaD 20 IP6x T145 ... T70 ℃	
Output——Type, ID No.	2-wire 4...20 mA current output	GPT-608-06mB-9/2M , A573GA00	GPT-60B-06mB-9/2M , A5A3GA00
	2-wire 4...20 mA current output(EX)	GPT-608-06mB-B/2M , A573GA02	GPT-60B-06mB-B/2M , A5A3GA02
	3-wire 0...10 V voltage output	GPT-608-06mB-A/2M , A573GA01	GPT-60B-06mB-A/2M , A5A3GA01

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 0.6/1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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GPT-608-001B-...	GPT-60B-001B-...	GPT-608-002B-...	GPT-60B-002B-...
Liquids and gases		Liquids and gases	
0 ... 1bar, Relative (2)		0 ... 1.6 bar, Relative (2)	
3 bar / >200 bar		4.8 bar / >200 bar	
9 ... 33 VDC / 9 ... 28 VDC 12 ... 30 VDC		9 ... 33 VDC / 9 ...30 VDC 12 ... 30 VDC	
-40 ... +150 °C		-40 ... +150 °C	
IP67		IP67	
Stainless steel 1.4404 / AISI 316L Stainless steel 1.4404 / AISI 316L FPM		Stainless steel 1.4404 / AISI 316L Stainless steel 1.4404 / AISI 316L FPM	
< 20 mA < 4 mA		< 20 mA < 4 mA	
< 1.2 kΩ / < 0.95 kΩ >10 kΩ		< 1.2 kΩ / < 0.95 kΩ >10 kΩ	
< 1 ms		< 1 ms	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.3 % fs /10 K		≤ ± 0.3 % fs /10 K	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
100 g (pulse duration 6 ms), acc. EN 60068-2-27		100 g (pulse duration 6 ms), acc. EN 60068-2-27	
20 g, 4 ... 2000 Hz with amplitude μ 10 mm, acc. IEC 60068-2-6		10 g (4 ... 2000 Hz, oscillation μ 10 mmpp), acc. EN 60068-2-6	
PUR Cable , Standard 2m		PUR Cable , Standard 2m	
G1/4" Outside thread, Flush diaphragm	G1/2" Outside thread, Flush diaphragm	G1/4" Outside thread, Flush diaphragm	G1/2" Outside thread, Flush diaphragm
II 1G Ex ia IIB/IIC T3 ... T6；II 1D Ex iaD 20 IP6x T145 ... T70 ℃		II 1G Ex ia IIB/IIC T3 ... T6；II 1D Ex iaD 20 IP6x T145 ... T70 ℃	
GPT-608-001B-9/2M , A5731A00	GPT-60B-001B-9/2M , A5A31A00	GPT-608-002B-9/2M , A5732A00	GPT-60B-002B-9/2M , A5A32A00
GPT-608-001B-B/2M , A5731A02	GPT-60B-001B-B/2M , A5A31A02	GPT-608-002B-B/2M , A5732A02	GPT-60B-002B-B/2M , A5A32A02
GPT-608-001B-A/2M , A5731A01	GPT-60B-001B-A/2M , A5A31A01	GPT-608-002B-A/2M , A5732A01	GPT-60B-002B-A/2M , A5A32A01

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 0.6/1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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- Welded construction provides 100% sealing against media
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Pressure transmitter type (1)		GPT-608-003B-...	GPT-60B-003B-...
Medium		Liquids and gases	
Pressure range		0 ... 2.5 bar, Relative (2)	
Max. allowable pressure		7.5 bar / > 850 bar	
Power supply	4...20 mA Current output / Ex	9 ... 33 VDC / 9 ... 28 VDC	
	0...10 V Voltage output	12 ... 30 VDC	
Temperature		-40 ... +150 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	Stainless steel 1.4404 / AISI 316L	
	Sealing material	FPM	
Operation Current	4...20 mA Current output / Ex	< 20 mA	
	0...10 V Voltage output	< 5 mA	
Load risistanse	4...20 mA Current output / Ex	< 1.2 kΩ / < 0.95 kΩ	
	0...10 V Voltage output	>10 kΩ	
Response time		< 1 ms	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.3 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.3 % fs	
Shock		100 g (pulse duration 6 ms), acc. EN 60068-2-27	
Vibration		10 g (4 ... 2000 Hz, oscillation μ 10 mmpp), acc. EN 60068-2-6	
Electrical connection(3)		PUR Cable , Standard 2m	
Pressure connection(4)		G1/4" Outside thread, Flush diaphragm	G1/2" Outside thread, Flush diaphragm
EX Mark——Gas ; Powder		II 1G Ex ia IIB/IIC T3 ... T6 ; II 1D Ex iaD 20 IP6x T145 ... T70 ℃	
Output——Type, ID No.	2-wire 4...20 mA current output	GPT-608-003B-9/2M , A5733A00	GPT-60B-003B-9/2M , A5A33A00
	2-wire 4...20 mA current output(EX)	GPT-608-003B-B/2M , A5733A02	GPT-60B-003B-B/2M , A5A33A02
	3-wire 0...10 V voltage output	GPT-608-003B-A/2M , A5733A01	GPT-60B-003B-A/2M , A5A33A01

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 0.6/1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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60 Series Flush Diaphragm pressure transmitter

GPT-608-004B-...	GPT-60B-004B-...	GPT-608-006B-...	GPT-60B-006B-...
Liquids and gases		Liquids and gases	
0 ... 4 bar, Relative (2)		0 ... 6 bar, Relative (2)	
12 bar / > 850 bar		18 bar / > 850 bar	
9 ... 33 VDC / 9 ... 28 VDC 12 ... 30 VDC		9 ... 33 VDC / 9 ...30 VDC 12 ... 30 VDC	
-40 ... +150 °C		-40 ... +150 °C	
IP67		IP67	
Stainless steel 1.4404 / AISI 316L Stainless steel 1.4404 / AISI 316L FPM		Stainless steel 1.4404 / AISI 316L Stainless steel 1.4404 / AISI 316L FPM	
< 20 mA < 5 mA		< 20 mA < 5 mA	
< 1.2 kΩ / < 0.95 kΩ >10 kΩ		< 1.2 kΩ / < 0.95 kΩ >10 kΩ	
< 1 ms		< 1 ms	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.3 % fs /10 K		≤ ± 0.3 % fs /10 K	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
100 g (pulse duration 6 ms), acc. EN 60068-2-27		100 g (pulse duration 6 ms), acc. EN 60068-2-27	
20 g, 4 ... 2000 Hz with amplitude μ 10 mm, acc. IEC 60068-2-6		10 g (4 ... 2000 Hz, oscillation μ 10 mmpp), acc. EN 60068-2-6	
PUR Cable , Standard 2m		PUR Cable , Standard 2m	
G1/4" Outside thread, Flush diaphragm	G1/2" Outside thread, Flush diaphragm	G1/4" Outside thread, Flush diaphragm	G1/2" Outside thread, Flush diaphragm
II 1G Ex ia IIB/IIC T3 ... T6 ; II 1D Ex iaD 20 IP6x T145 ... T70 ℃		II 1G Ex ia IIB/IIC T3 ... T6 ; II 1D Ex iaD 20 IP6x T145 ... T70 ℃	
GPT-608-004B-9/2M , A5734A00	GPT-60B-004B-9/2M , A5A34A00	GPT-608-006B-9/2M , A5735A00	GPT-60B-006B-9/2M , A5A35A00
GPT-608-004B-B/2M , A5734A02	GPT-60B-004B-B/2M , A5A34A02	GPT-608-006B-B/2M , A5735A02	GPT-60B-006B-B/2M , A5A35A02
GPT-608-001B-A/2M , A5734A01	GPT-60B-004B-A/2M , A5A34A01	GPT-608-006B-A/2M , A5735A01	GPT-60B-006B-A/2M , A5A35A01

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 0.6/1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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- Welded construction provides 100% sealing against media
- Certified : CE Ex

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Pressure transmitter type (1)		GPT-608-010B-...	GPT-60B-010B-...
Medium		Liquids and gases	
Pressure range		0 ... 10 bar, Relative (2)	
Max. allowable pressure		30 bar / > 850 bar	
Power supply	4...20 mA Current output / Ex	9 ... 33 VDC / 9 ... 28 VDC	
	0...10 V Voltage output	12 ... 30 VDC	
Temperature		-40 ... +150 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	Stainless steel 1.4404 / AISI 316L	
	Sealing material	FPM	
Operation Current	4...20 mA Current output / Ex	< 20 mA	
	0...10 V Voltage output	< 5 mA	
Load risistanse	4...20 mA Current output / Ex	< 1.2 kΩ / < 0.95 kΩ	
	0...10 V Voltage output	>10 kΩ	
Response time		< 1 ms	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.3 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.3 % fs	
Shock		100 g (pulse duration 6 ms), acc. EN 60068-2-27	
Vibration		10 g (4 ... 2000 Hz, oscillation μ 10 mmpp), acc. EN 60068-2-6	
Electrical connection(3)		PUR Cable , Standard 2m	
Pressure connection(4)		G1/4" Outside thread, Flush diaphragm	G1/2" Outside thread, Flush diaphragm
EX Mark——Gas ; Powder		II 1G Ex ia IIB/IIC T3 ... T6 ; II 1D Ex iaD 20 IP6x T145 ... T70 ℃	
Output——Type, ID No.	2-wire 4...20 mA current output	GPT-608-010B-9/2M , A5736A00	GPT-60B-010B-9/2M , A5A36A00
	2-wire 4...20 mA current output(EX)	GPT-608-010B-B/2M , A5736A02	GPT-60B-010B-B/2M , A5A36A02
	3-wire 0...10 V voltage output	GPT-608-010B-A/2M , A5736A01	GPT-60B-010B-A/2M , A5A36A01

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 0.6/1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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GPT-608-016B-...	GPT-60B-016B-...	GPT-608-025B-...	GPT-60B-025B-...
Liquids and gases		Liquids and gases	
0 ... 16 bar, Relative (2)		0 ... 25 bar, Relative (2)	
48 bar / > 850 bar		75 bar / > 850 bar	
9 ... 33 VDC / 9 ... 28 VDC 12 ... 30 VDC		9 ... 33 VDC / 9 ...30 VDC 12 ... 30 VDC	
-40 ... +150 °C		-40 ... +150 °C	
IP67		IP67	
Stainless steel 1.4404 / AISI 316L Stainless steel 1.4404 / AISI 316L FPM		Stainless steel 1.4404 / AISI 316L Stainless steel 1.4404 / AISI 316L FPM	
< 20 mA < 5 mA		< 20 mA < 5 mA	
< 1.2 kΩ / < 0.95 kΩ >10 kΩ		< 1.2 kΩ / < 0.95 kΩ >10 kΩ	
< 1 ms		< 1 ms	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.3 % fs /10 K		≤ ± 0.3 % fs /10 K	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
100 g (pulse duration 6 ms), acc. EN 60068-2-27		100 g (pulse duration 6 ms), acc. EN 60068-2-27	
10 g (4 ... 2000 Hz, oscillation µ 10 mmpp), acc. EN 60068-2-6		10 g (4 ... 2000 Hz, oscillation µ 10 mmpp), acc. EN 60068-2-6	
PUR Cable , Standard 2m		PUR Cable , Standard 2m	
G1/4" Outside thread, Flush diaphragm	G1/2" Outside thread, Flush diaphragm	G1/4" Outside thread, Flush diaphragm	G1/2" Outside thread, Flush diaphragm
II 1G Ex ia IIB/IIC T3 ... T6 ; II 1D Ex iaD 20 IP6x T145 ... T70 ℃		II 1G Ex ia IIB/IIC T3 ... T6 ; II 1D Ex iaD 20 IP6x T145 ... T70 ℃	
GPT-608-016B-9/2M , A5737A00	GPT-60B-016B-9/2M , A5A37A00	GPT-608-025B-9/2M , A5738A00	GPT-60B-025B-9/2M , A5A38A00
GPT-608-016B-B/2M , A5737A02	GPT-60B-016B-B/2M , A5A37A02	GPT-608-025B-B/2M , A5738A02	GPT-60B-025B-B/2M , A5A38A02
GPT-608-016B-A/2M , A5737A01	GPT-60B-016B-A/2M , A5A37A01	GPT-608-025B-A/2M , A5738A01	GPT-60B-025B-A/2M , A5A38A01

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 0.6/1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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GPT-60...

- Effective overload protection due to chemically eteched chip diaphragm and specially designed glass gland
- Piezo resistive silicon pressure measurement element, flush diaphragm structure
- Fast and affordable customer specific solutions due to building block system, even for small quantities
- Compact construction with SMD technology enhances operational reliability in the presence of shock and vibration
- Welded construction provides 100% sealing against media
- Certified : CE Ex

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- dimensional drawing : page 56
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- ------

Pressure transmitter type (1)		GPT-608-040B-...	GPT-60B-040B-...
Medium		Liquids and gases	
Pressure range		0 ... 40 bar, Relative (2)	
Max. allowable pressure		120 bar / > 850 bar	
Power supply	4...20 mA Current output / Ex	9 ... 33 VDC / 9 ... 28 VDC	
	0...10 V Voltage output	12 ... 30 VDC	
Temperature		-40 ... +150 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	Stainless steel 1.4404 / AISI 316L	
	Sealing material	FPM	
Operation Current	4...20 mA Current output / Ex	< 20 mA	
	0...10 V Voltage output	< 5 mA	
Load risistanse	4...20 mA Current output / Ex	< 1.2 kΩ / < 0.95 kΩ	
	0...10 V Voltage output	>10 kΩ	
Response time		< 1 ms	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.3 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.3 % fs	
Shock		100 g (pulse duration 6 ms), acc. EN 60068-2-27	
Vibration		20 g (4 ... 2000 Hz, oscillation μ 10 mmpp), acc. EN 60068-2-6	
Electrical connection(3)		PUR Cable , Standard 2m	
Pressure connection(4)		G1/4" Outside thread, Flush diaphragm	G1/2" Outside thread, Flush diaphragm
EX Mark——Gas ; Powder		II 1G Ex ia IIB/IIC T3 ... T6 ; II 1D Ex iaD 20 IP6x T145 ... T70 ℃	
Output——Type, ID No.	2-wire 4...20 mA current output	GPT-608-040B-9/2M , A5739A00	GPT-60B-040B-9/2M , A5A39A00
	2-wire 4...20 mA current output(EX)	GPT-608-040B-B/2M , A5739A02	GPT-60B-040B-B/2M , A5A39A02
	3-wire 0...10 V voltage output	GPT-608-040B-A/2M , A5739A01	GPT-60B-040B-A/2M , A5A39A01

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 0.6/1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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GPT-608-070B-...	GPT-60B-070B-...	GPT-608-100B-...	GPT-60B-100B-...
Liquids and gases		Liquids and gases	
0 ... 60 bar, Relative (2)		0 ... 100 bar, Relative (2)	
180 bar / > 850 bar		300 bar / > 850 bar	
9 ... 33 VDC / 9 ... 28 VDC 12 ... 30 VDC		9 ... 33 VDC / 9 ...30 VDC 12 ... 30 VDC	
-40 ... +150 °C		-40 ... +150 °C	
IP67		IP67	
Stainless steel 1.4404 / AISI 316L Stainless steel 1.4404 / AISI 316L FPM		Stainless steel 1.4404 / AISI 316L Stainless steel 1.4404 / AISI 316L FPM	
< 20 mA < 5 mA		< 20 mA < 5 mA	
< 1.2 kΩ / < 0.95 kΩ >10 kΩ		< 1.2 kΩ / < 0.95 kΩ >10 kΩ	
< 1 ms		< 1 ms	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.3 % fs /10 K		≤ ± 0.3 % fs /10 K	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
100 g (pulse duration 6 ms), acc. EN 60068-2-27		100 g (pulse duration 6 ms), acc. EN 60068-2-27	
20 g (4 ... 2000 Hz, oscillation μ 10 mmpp), acc. EN 60068-2-6		20 g (4 ... 2000 Hz, oscillation μ 10 mmpp), acc. EN 60068-2-6	
PUR Cable , Standard 2m		PUR Cable , Standard 2m	
G1/4" Outside thread, Flush diaphragm	G1/2" Outside thread, Flush diaphragm	G1/4" Outside thread, Flush diaphragm	G1/2" Outside thread, Flush diaphragm
II 1G Ex ia IIB/IIC T3 ... T6 ; II 1D Ex iaD 20 IP6x T145 ... T70 ℃		II 1G Ex ia IIB/IIC T3 ... T6 ; II 1D Ex iaD 20 IP6x T145 ... T70 ℃	
GPT-608-070B-9/2M , A573AA00	GPT-60B-070B-9/2M , A5A3AA00	GPT-608-100B-9/2M , A573BA00	GPT-60B-100B-9/2M , A5A3BA00
GPT-608-070B-B/2M , A573AA02	GPT-60B-070B-B/2M , A5A3AA02	GPT-608-100B-B/2M , A573BA02	GPT-60B-100B-B/2M , A5A3BA02
GPT-608-070B-A/2M , A573AA01	GPT-60B-070B-A/2M , A5A3AA01	GPT-608-100B-A/2M , A573BA01	GPT-60B-100B-A/2M , A5A3BA01

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 0.6/1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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GPT-60...

- Effective overload protection due to chemically eteched chip diaphragm and specially designed glass gland
- Piezo resistive silicon pressure measurement element, flush diaphragm structure
- Fast and affordable customer specific solutions due to building block system, even for small quantities
- Compact construction with SMD technology enhances operational reliability in the presence of shock and vibration
- Welded construction provides 100% sealing against media
- Certified : CE Ex

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- dimensional drawing : page 56
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Pressure transmitter type (1)		GPT-608-160B-...	GPT-60B-160B-...
Medium		Liquids and gases	
Pressure range		0 ... 160 bar, Relative (2)	
Max. allowable pressure		480 bar / > 850 bar	
Power supply	4...20 mA Current output / Ex	9 ... 33 VDC / 9 ... 28 VDC	
	0...10 V Voltage output	12 ... 30 VDC	
Temperature		-40 ... +150 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	Stainless steel 1.4404 / AISI 316L	
	Sealing material	FPM	
Operation Current	4...20 mA Current output / Ex	< 20 mA	
	0...10 V Voltage output	< 5 mA	
Load risistanse	4...20 mA Current output / Ex	< 1.2 kΩ / < 0.95 kΩ	
	0...10 V Voltage output	>10 kΩ	
Response time		< 1 ms	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.3 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.3 % fs	
Shock		100 g (pulse duration 6 ms), acc. EN 60068-2-27	
Vibration		10 g (4 ... 2000 Hz, oscillation μ 10 mmpp), acc. EN 60068-2-6	
Electrical connection(3)		PUR Cable , Standard 2m	
Pressure connection(4)		G1/4" Outside thread, Flush diaphragm	G1/2" Outside thread, Flush diaphragm
EX Mark——Gas ; Powder		II 1G Ex ia IIB/IIC T3 ... T6 ; II 1D Ex iaD 20 IP6x T145 ... T70 ℃	
Output——Type, ID No.	2-wire 4...20 mA current output	GPT-608-160B-9/2M , A573CA00	GPT-60B-160B-9/2M , A5A3CA00
	2-wire 4...20 mA current output(EX)	GPT-608-160B-B/2M , A573CA02	GPT-60B-160B-B/2M , A5A3CA02
	3-wire 0...10 V voltage output	GPT-608-160B-A/2M , A573CA01	GPT-60B-160B-A/2M , A5A3CA01

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 0.6/1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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GPT-608-250B-...	GPT-60B-250B-...	GPT-608-400B-...	GPT-60B-400B-...
Liquids and gases		Liquids and gases	
0 ... 250 bar, Relative (2)		0 ... 400 bar, Relative (2)	
750 bar / > 850 bar		850 bar / > 850 bar	
9 ... 33 VDC / 9 ... 28 VDC 12 ... 30 VDC		9 ... 33 VDC / 9 ...30 VDC 12 ... 30 VDC	
-40 ... +150 °C		-40 ... +150 °C	
IP67		IP67	
Stainless steel 1.4404 / AISI 316L Stainless steel 1.4404 / AISI 316L FPM		Stainless steel 1.4404 / AISI 316L Stainless steel 1.4404 / AISI 316L FPM	
< 20 mA < 5 mA		< 20 mA < 5 mA	
< 1.2 kΩ / < 0.95 kΩ >10 kΩ		< 1.2 kΩ / < 0.95 kΩ >10 kΩ	
< 1 ms		< 1 ms	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.3 % fs /10 K		≤ ± 0.3 % fs /10 K	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
≤ ± 0.3 % fs		≤ ± 0.3 % fs	
100 g (pulse duration 6 ms), acc. EN 60068-2-27		100 g (pulse duration 6 ms), acc. EN 60068-2-27	
20 g (4 ... 2000 Hz, oscillation μ 10 mmpp), acc. EN 60068-2-6		20 g (4 ... 2000 Hz, oscillation μ 10 mmpp), acc. EN 60068-2-6	
PUR Cable , Standard 2m		PUR Cable , Standard 2m	
G1/4" Outside thread, Flush diaphragm	G1/2" Outside thread, Flush diaphragm	G1/4" Outside thread, Flush diaphragm	G1/2" Outside thread, Flush diaphragm
II 1G Ex ia IIB/IIC T3 ... T6 ; II 1D Ex iaD 20 IP6x T145 ... T70 ℃		II 1G Ex ia IIB/IIC T3 ... T6 ; II 1D Ex iaD 20 IP6x T145 ... T70 ℃	
GPT-608-250B-9/2M , A573DA00	GPT-60B-250B-9/2M , A5A3DA00	GPT-608-400B-9/2M , A573EA00	GPT-60B-400B-9/2M , A5A3EA00
GPT-608-250B-B/2M , A573DA02	GPT-60B-250B-B/2M , A5A3DA02	GPT-608-400B-B/2M , A573EA02	GPT-60B-400B-B/2M , A5A3EA02
GPT-608-250B-A/2M , A573DA01	GPT-60B-250B-A/2M , A5A3DA01	GPT-608-400B-A/2M , A573EA01	GPT-60B-400B-A/2M , A5A3EA01

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 0.6/1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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60 Series Flush Diaphragm pressure transmitter

GPT-60...

- Effective overload protection due to chemically eteched chip diaphragm and specially designed glass gland
- Piezo resistive silicon pressure measurement element, flush diaphragm structure
- Fast and affordable customer specific solutions due to building block system even for small quantities
- Compact construction with SMD technology enhances operational reliability in the presence of shock and vibration
- Welded construction provides 100% sealing against media·
- Certified : CE Ex

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Pressure transmitter type (1)		GPT-608-600B-...	GPT-60B-600B-...
Medium		Liquids and gases	
Pressure range		0 ... 600 bar, Relative (2)	
Max. allowable pressure		1500 bar / > 1500 bar	
Power supply	4...20 mA Current output / Ex	9 ... 33 VDC / 9 ... 28 VDC	
	0...10 V Voltage output	12 ... 30 VDC	
Temperature		-40 ... +150 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	Stainless steel 1.4404 / AISI 316L	
	Sealing material	FPM	
Operation Current	4...20 mA Current output / Ex	< 20 mA	
	0...10 V Voltage output	< 5 mA	
Load risistanse	4...20 mA Current output / Ex	< 1.2 kΩ / < 0.95 kΩ	
	0...10 V Voltage output	>10 kΩ	
Response time		< 1 ms	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.3 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.3 % fs	
Tolerance zero point		≤ ± 0.3 % fs	
Shock		100 g (pulse duration 6 ms), acc. EN 60068-2-27	
Vibration		10 g (4 ... 2000 Hz, oscillation μ 10 mmpp), acc. EN 60068-2-6	
Electrical connection(3)		PUR Cable , Standard 2m	
Pressure connection(4)		G1/4" Outside thread, Flush diaphragm	G1/2" Outside thread, Flush diaphragm
EX Mark——Gas ; Powder		II 1G Ex ia IIB/IIC T3 ... T6 ; II 1D Ex iaD 20 IP6x T145 ... T70 ℃	
Output——Type, ID No.	2-wire 4...20 mA current output	GPT-608-600B-9/2M , A573FA00	GPT-60B-600B-9/2M , A5A3FA00
	2-wire 4...20 mA current output(EX)	GPT-608-600B-B/2M , A573FA02	GPT-60B-600B-B/2M , A5A3FA02
	3-wire 0...10 V voltage output	GPT-608-600B-A/2M , A573FA01	GPT-60B-600B-A/2M , A5A3FA01

(1)Other types please see "type selection guide" or ask relative PM

(2)Absolute pressure measuring range can be selected from: 0 ... 0.6/1/1.6/2.5/4/6/10/16/25 bar

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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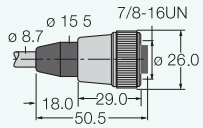
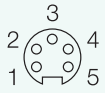
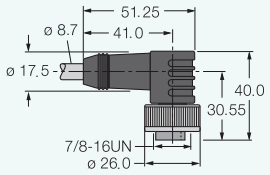
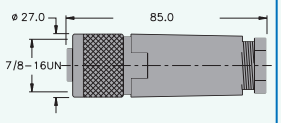
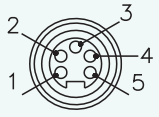
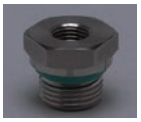
Electrical connections (5)

Precast cable		Pin Number	Cable Length	ID No.	Type
7/8"Straight Female Connector 		5	2m	10033000	MK5-2M
			5m	10033001	MK5-5M
			10m	10033002	MK5-10M
7/8"Angle Female Connector 	1 = BK 2 = BU 3 = GNYE 4 = BN 5 = WH	5	2m	10033030	MLK5-2M
			5m	10033031	MLK5-5M
			10m	10033032	MLK5-10M

Swift connector		Pin Number	Cable diameter	Outlet	ID No.	Type
7/8"Straight Female Connector -5PIN 		5	8-10 mm	PG11	10092101	MK5211-0/11
	PA6+GF , Black / Cu-Zn Brass gold plated contacts, Spring-type terminals 85°C , 250 V , 9 A	5	10-12 mm	PG13.5	10092102	MK5211-0/13.5

Accessories (6)

	Instruction	Type , ID No.
	Thread conversion device , G1/4" Inside to G1/4" Outside thread Shell material: Stainless steel	GPA-G1/4F-G1/4M-A4 , B5130110
	Thread conversion device , G1/4" Inside to G1/2" Outside thread Shell material: Stainless steel	GPA-G1/4F-G1/2M-A4 , B5140110
	Thread conversion device , G1/4" Inside thread to M20X1.5 Outside thread, Shell material: Stainless steel	GPA-G1/4F-M20X1.5M-A4 , B5180110

(5)Other connector types please ask connector product manager

(6)Other mounting accessories types with different thread please ask relative product manager

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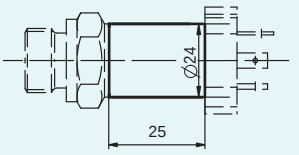
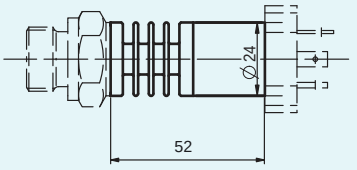
Dimensional drawing

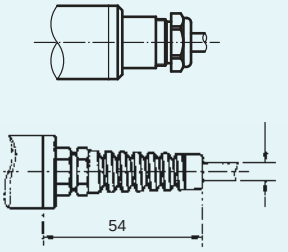
Suitable for medium temperature up to +125 DEG C product model



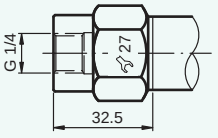
适用于介质温度 > +125 ... 最高至 +150 ℃产品型号



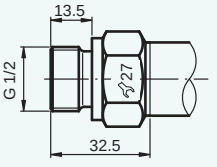
PG9



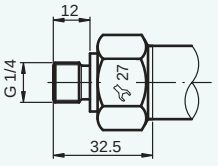
G1/4” Inside thread



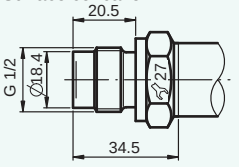
G1/2” Outside thread



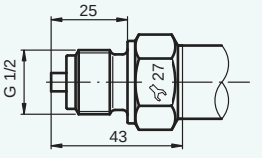
G1/4” Outside thread



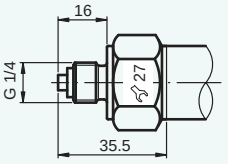
G1/2” Outside thread ,
Surface concave 1mm



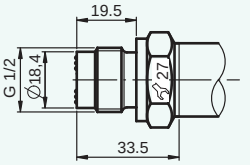
G1/2” Outside thread ,
Pressure gauge connection



G1/4” Outside thread ,
Pressure gauge connection



G1/2” Outside thread ,
Perfectly flush



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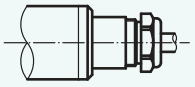
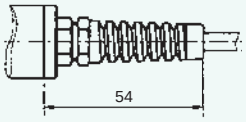
Wiring diagram

Cable version

Standard PUR PG9

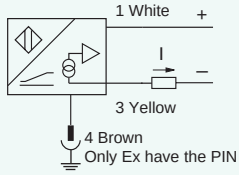


Armored PUR

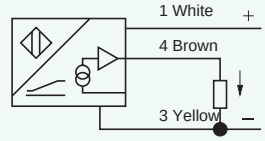


2 wire (4 ... 20 mA , current output) 1 (Input) 3 (Output)

2 wire +GND (4 ... 20 mA , current output , EX) 1 (Input) 3 (Output) 4 (⏚)

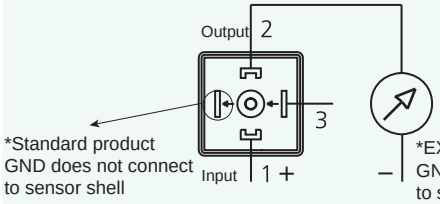


3 wire (0-10 V , voltage output) 1 (Input) 4 (Output) 3 (GND)



DIN EN 175301-803-A The valve connector

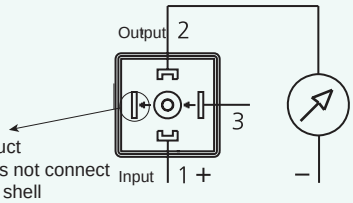
2 wire (4 ... 20 mA , current output)



*Standard product GND does not connect to sensor shell

1 (Input) 2 (Output)

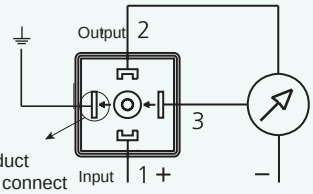
2 wire +GND (4 ... 20 mA , current output , EX)



*EX product GND does not connect to sensor shell

1 (Input) 2 (Output)

3 wire (0-10 V , voltage output)



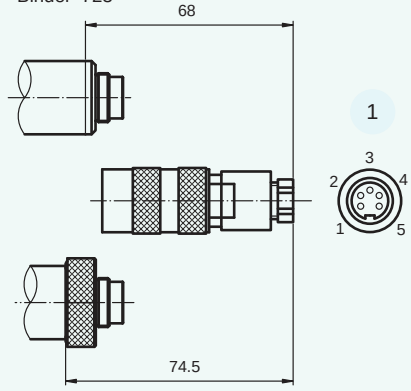
*Standard product GND does not connect to sensor shell

1 (Input) 2 (Output) 3 (GND)

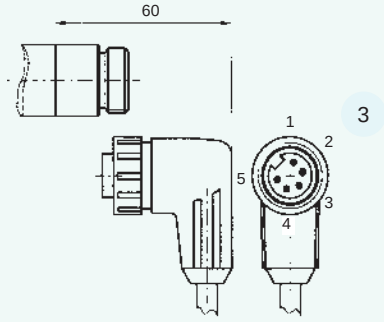
Other connectors and wiring diagram

	PIN	2 wire	3 wire
1	1	OUT	OUT
	3	IN	IN
	4		GND
2	1		GND
	3	OUTOUT	
	4	IN	IN
3	1	OUT	OUT
	3	IN	IN
	4		GND

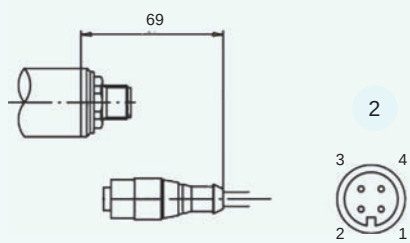
Binder 723



Lumberg 5 pin RSF 50



Lumberg 4 pin RSF 4



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GPD-50...

- Compact, rugged construction, High over pressure
- Thick stainless steel pressure measuring element
- Clearly readable display, Sensitive operation keys
- Diagnostic function
- suitable for an extremely wide range of demanding industrial applications
- Certified : CE, UL

- Connector : page 62
- Accessories : page 62
- dimensional drawing : page 63
- Wiring diagram : page 63
- ------

Pressure Switch type (1)		GPD-502-070B-...	GPD-508-070B-...
Medium		Liquids and gases	
Pressure range		0 ... 60 bar, Relative (2)	
Max. allowable pressure		180 bar / 360 bar	
Power supply		17 ... 33 VDC	
Rated operation current (Digital output)		200 mA	
Temperature		-20 ... +80 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	stainless steel	
	Sealing material	FPM	
Current consumption		≤ 50 mA	
Load risistanse	4...20 mA Current output	< 0.5 kΩ	
	0...10 V Voltage output	>10 kΩ	
Response time		≤ 5 ms	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.2 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.5 % fs	
Tolerance zero point		≤ ± 0.1 % fs	
Shock		50 g(11ms half sine wave), acc. IEC 60068-2-27	
Vibration		20 g (10 … 2000 Hz), acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1, Metal thread	
Pressure connection(4)		G1/4" Inside thread, with O-Ring sealing FPM spez.	G1/4" Outside thread，DIN 3852
Output type ——Type, ID No.	4...20 mA Current output +1 DO(PNP)	GPD-502-070B-3， A514A105	GPD-508-070B-3， A574A105
	0...10 V Voltage output + 1 DO(PNP)	GPD-502-070B-4， A514A106	GPD-508-070B-4， A574A106
	2 DO(PNP)	GPD-502-070B-2， A514A104	GPD-508-070B-2， A574A104
	4...20 mA Current output +2 DO(PNP)	GPD-502-070B-5， A514A107	GPD-508-070B-5， A574A107
	0...10 V Voltage output + 2 DO(PNP)	GPD-502-070B-6， A514A108	GPD-508-070B-6， A574A108

(1)Other types please see "type selection guide" or ask relative PM
(2)Types with absolute pressure measuring haven't provided at present, ask PM if necessory
(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time
(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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GPD-502-100B-...	GPD-508-100B-...	GPD-502-160B-...	GPD-508-160B-...
Liquids and gases		Liquids and gases	
0 ... 100 bar, Relative (2)		0 ... 160 bar, Relative (2)	
300 bar / 600 bar		480 bar / 960 bar	
17 ... 33 VDC		17 ... 33 VDC	
200 mA		200 mA	
-20 ... +80 °C		-20 ... +80 °C	
IP67		IP67	
Stainless steel 1.4404 / AISI 316L stainless steel FPM		Stainless steel 1.4404 / AISI 316L stainless steel FPM	
≤ 50 mA		≤ 50 mA	
< 0.5 kΩ >10 kΩ		< 0.5 kΩ >10 kΩ	
≤ 5 ms		≤ 5 ms	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.2 % fs /10 K		≤ ± 0.2 % fs /10 K	
≤ ± 0.5 % fs		≤ ± 0.5 % fs	
≤ ± 0.1 % fs		≤ ± 0.1 % fs	
50 g(11ms half sine wave), acc. IEC 60068-2-27		50 g(11ms half sine wave), acc. IEC 60068-2-27	
20 g (10 … 2000 Hz), acc. IEC 60068-2-6		20 g (10 … 2000 Hz), acc. IEC 60068-2-6	
Connector M12x1, Metal thread		Connector M12x1, Metal thread	
G1/4" Inside thread, with O-Ring sealing FPM spez.	G1/4" Outside thread，DIN 3852	G1/4" Inside thread, with O-Ring sealing FPM spez.	G1/4" Outside thread，DIN 3852
GPD-502-100B-3， A514B105	GPD-508-100B-3， A574B105	GPD-502-160B-3， A514C105	GPD-508-160B-3， A574C105
GPD-502-100B-4， A514B106	GPD-508-100B-4， A574B106	GPD-502-160B-4， A514C106	GPD-508-160B-4， A574C106
GPD-502-100B-2， A514B104	GPD-508-100B-2， A574B104	GPD-502-160B-2， A514C104	GPD-508-160B-2， A574C104
GPD-502-100B-5， A514B107	GPD-508-100B-5， A574B107	GPD-502-160B-5， A514C107	GPD-508-160B-5， A574C107
GPD-502-100B-6， A514B108	GPD-508-100B-6， A574B108	GPD-502-160B-6， A514C108	GPD-508-160B-6， A574C108

(1)Other types please see "type selection guide" or ask relative PM

(2)Types with absolute pressure measuring haven't provided at present, ask PM if necessory

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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- suitable for an extremely wide range of demanding industrial applications
- Certified : CE, UL

- Connector : page 62
- Accessories : page 62
- dimensional drawing : page 63
- Wiring diagram : page 63
- ------

Pressure Switch type (1)		GPD-502-250B-...	GPD-508-250B-...
Medium		Liquids and gases	
Pressure range		0 ... 250 bar, Relative (2)	
Max. allowable pressure		750 bar / 1500 bar	
Power supply		17 ... 33 VDC	
Rated operation current (Digital output)		200 mA	
Temperature		-20 ... +80 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	stainless steel	
	Sealing material	FPM	
Current consumption		≤ 50 mA	
Load risistanse	4...20 mA Current output	< 0.5 kΩ	
	0...10 V Voltage output	>10 kΩ	
Response time		≤ 5 ms	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.2 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.5 % fs	
Tolerance zero point		≤ ± 0.1 % fs	
Shock		50 g(11ms half sine wave), acc. IEC 60068-2-27	
Vibration		20 g (10 … 2000 Hz), acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1, Metal thread	
Pressure connection(4)		G1/4" Inside thread, with O-Ring sealing FPM spez.	G1/4" Outside thread , DIN 3852
Output type ——Type, ID No.	4...20 mA Current output +1 DO(PNP)	GPD-502-250B-3 , A514D105	GPD-508-250B-3 , A574D105
	0...10 V Voltage output + 1 DO(PNP)	GPD-502-250B-4 , A514D106	GPD-508-250B-4 , A574D106
	2 DO(PNP)	GPD-502-250B-2 , A514D104	GPD-508-250B-2 , A574D104
	4...20 mA Current output +2 DO(PNP)	GPD-502-250B-5 , A514D107	GPD-508-250B-5 , A574D107
	0...10 V Voltage output + 2 DO(PNP)	GPD-502-250B-6 , A514D108	GPD-508-250B-6 , A574D108

(1)Other types please see "type selection guide" or ask relative PM

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(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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GPD-502-400B-...	GPD-508-400B-...	GPD-502-600B-...	GPD-508-600B-...
Liquids and gases		Liquids and gases	
0 ... 400 bar, Relative (2)		0 ... 600 bar, Relative (2)	
1200 bar / 2400 bar		1500 bar / 2500 bar	
17 ... 33 VDC		17 ... 33 VDC	
200 mA		200 mA	
-20 ... +80 °C		-20 ... +80 °C	
IP67		IP67	
Stainless steel 1.4404 / AISI 316L stainless steel FPM		Stainless steel 1.4404 / AISI 316L stainless steel FPM	
≤ 50 mA		≤ 50 mA	
< 0.5 kΩ >10 kΩ		< 0.5 kΩ >10 kΩ	
≤ 5 ms		≤ 5 ms	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.2 % fs /10 K		≤ ± 0.2 % fs /10 K	
≤ ± 0.5 % fs		≤ ± 0.5 % fs	
≤ ± 0.1 % fs		≤ ± 0.1 % fs	
50 g(11ms half sine wave), acc. IEC 60068-2-27		50 g(11ms half sine wave), acc. IEC 60068-2-27	
20 g (10 … 2000 Hz), acc. IEC 60068-2-6		20 g (10 … 2000 Hz), acc. IEC 60068-2-6	
Connector M12x1, Metal thread		Connector M12x1, Metal thread	
G1/4" Inside thread, with O-Ring sealing FPM spez.	G1/4" Outside thread，DIN 3852	G1/4" Inside thread, with O-Ring sealing FPM spez.	G1/4" Outside thread，DIN 3852
GPD-502-400B-3，A514E105	GPD-508-400B-3，A574E105	GPD-502-600B-3，A514F105	GPD-508-600B-3，A574F105
GPD-502-400B-4，A514E106	GPD-508-400B-4，A574E106	GPD-502-600B-4，A514F106	GPD-508-600B-4，A574F106
GPD-502-400B-2，A514E104	GPD-508-400B-2，A574E104	GPD-502-600B-2，A514F104	GPD-508-600B-2，A574F104
GPD-502-400B-5，A514E107	GPD-508-400B-5，A574E107	GPD-502-600B-5，A514F107	GPD-508-600B-5，A574F107
GPD-502-400B-6，A514E108	GPD-508-400B-6，A574E108	GPD-502-600B-6，A514F108	GPD-508-600B-6，A574F108

(1)Other types please see "type selection guide" or ask relative PM

(2)Types with absolute pressure measuring haven't provided at present, ask PM if necessory

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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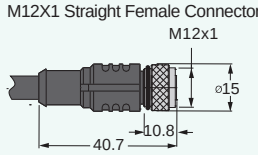
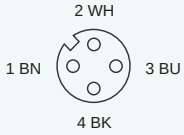
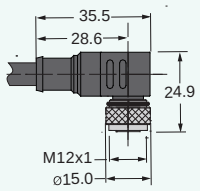
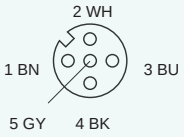
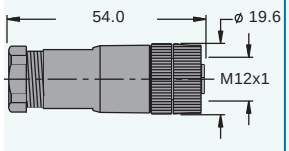
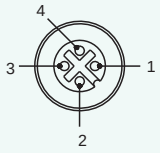
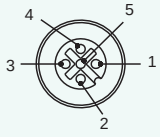
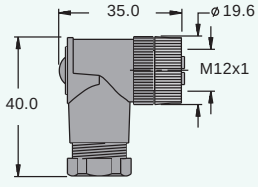
Electrical connections (5)

(5)Other connector types please ask connector product manager

Precast cable

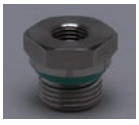
		Pin Number	Cable Length	ID No.	Type
M12X1 Straight Female Connector 		4	2m	10011010	EK4-2M/P00
			5m	10011011	EK4-5M/P00
			10m	10011012	EK4-10M/P00
		5	2m	10011020	EK4.5-2M/P00
			5m	10011021	EK4.5-5M/P00
			10m	10011022	EK4.5-10M/P00
M12X1 Angle Female Connector 		4	2m	10011040	ELK4-2M/P00
			5m	10011041	ELK4-5M/P00
			10m	10011042	ELK4-10M/P00
		5	2m	10011050	ELK4.5-2M/P00
			5m	10011051	ELK4.5-5M/P00
			10m	10011052	ELK4.5-10M/P00

Swift connector

		Pin Number	Cable diameter	Outlet	ID No.	Type
M12X1 Straight Female Connector 		4	4-6 mm	PG7	10091000	EK4112-0/7
			6-8 mm	PG9	10091001	EK4112-0/9
		5	6-8 mm	PG9	10091002	EK5112-0/9
M12X1 Angle Female Connector 	PBT , Black / Brass nickel plated, Spring-type terminals 85°C , 250 V , 4 A	4	4-6 mm	PG7	10091010	ELK4112-0/7
			6-8 mm	PG9	10091011	ELK4112-0/9
		5	6-8 mm	PG9	10091012	ELK5112-0/9

Accessories (6)

(6)Other mounting accessories types with different thread please ask relative product manager

	Instruction	Type , ID No.
	Thread conversion device , G1/4" to G1/4" Outside thread Shell material: Stainless steel	GPA-G1/4M-G1/4M-A4 , B5130010
	Thread conversion device , G1/4" to G1/2" Outside thread Shell material: Stainless steel	GPA-G1/4M-G1/2M-A4 , B5140010
	Thread conversion device , G1/4" to M12X1 Outside thread Shell material: Stainless steel	GPA-G1/4M-M20X1.5M-A4 , B5180010
	Thread conversion device , G1/4" Inside to G1/4" Outside thread Shell material: Stainless steel	GPA-G1/4F-G1/4M-A4 , B5130110
	Thread conversion device , G1/4" Inside to G1/2" Outside thread Shell material: Stainless steel	GPA-G1/4F-G1/2M-A4 , B5140110

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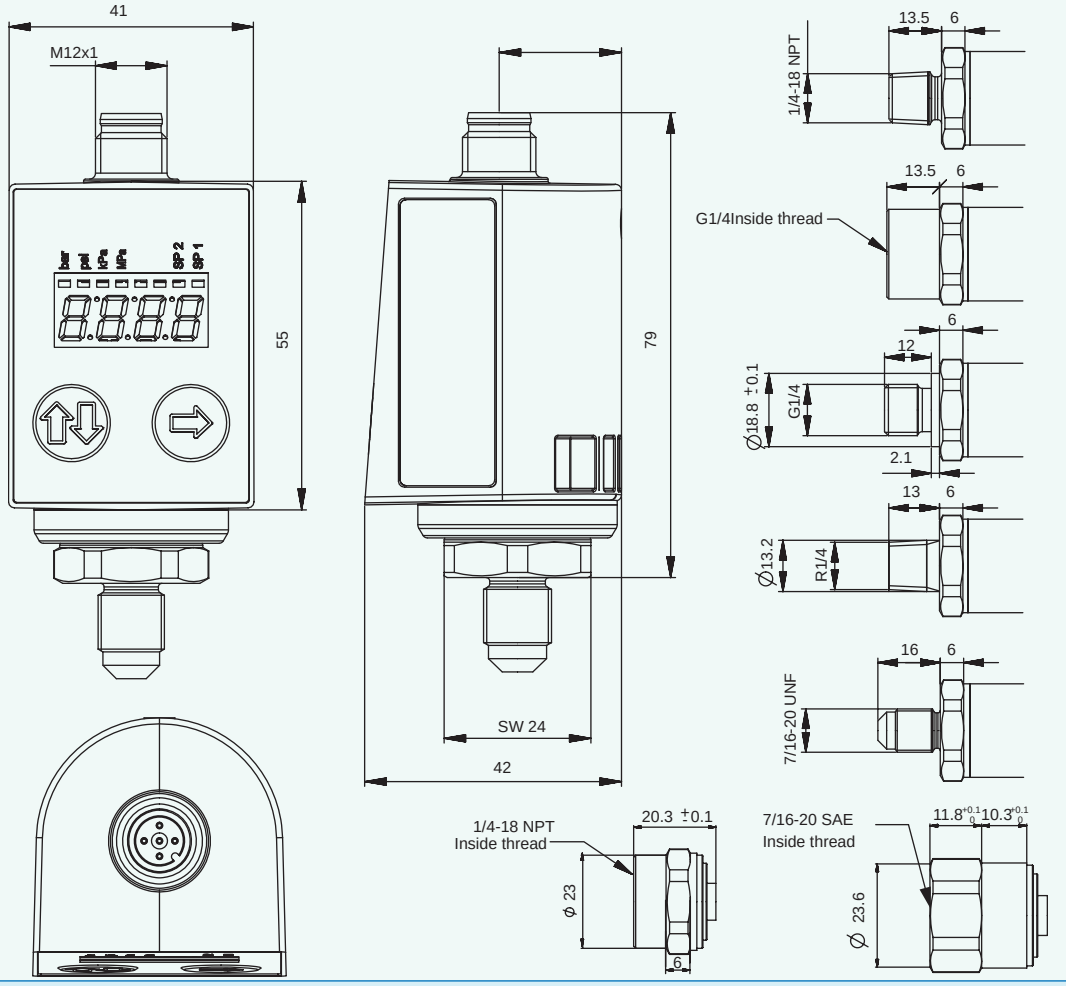
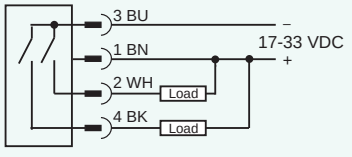
Dimensional drawing



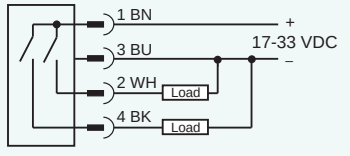
Wiring diagram

M12x1 circular connectors

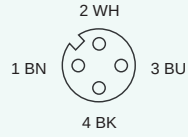
NPN



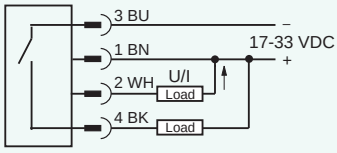
PNP



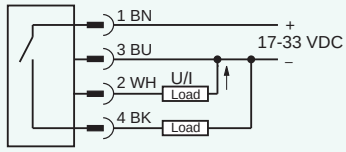
2 DO
PNP or NPN
NO/NC programmable



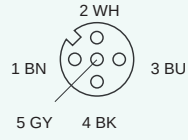
NPN



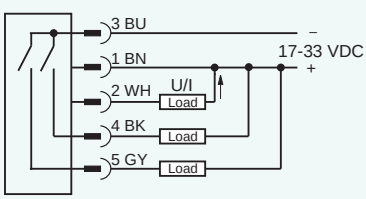
PNP



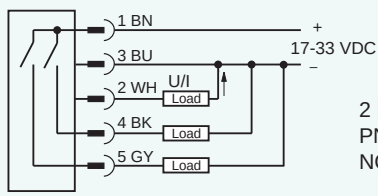
1 DO + 1 AO
PNP or NPN
NO/NC programmable



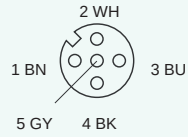
NPN



PNP



2 DO + 1 AO
PNP or NPN
NO/NC programmable



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GPD-58...

- Compact, rugged construction, High over pressure
- ceramic Al2O3 as the sensor
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- Connector : page 70
- Accessories : page 70
- dimensional drawing : page 71
- Wiring diagram : page 71
- ------

Pressure Switch type (1)		GPD-582-01VB-...	GPD-588-01VB-...
Medium		Liquids and gases	
Pressure range		-1 ... 0 bar, Relative (2)	
Max. allowable pressure		4 bar / 4 bar	
Power supply		17 ... 33 VDC	
Rated operation current (Digital output)		200 mA	
Temperature		-20 ... +80 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	ceramic Al2O3 (96%)	
	Sealing material	FPM	
Current consumption		≤ 50 mA	
Load risistanse	4...20 mA Current output	< 0.5 kΩ	
	0...10 V Voltage output	>10 kΩ	
Response time		≤ 5 ms	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.2 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.5 % fs	
Tolerance zero point		≤ ± 0.1 % fs	
Shock		50 g(11ms half sine wave), acc. IEC 60068-2-27	
Vibration		20 g (10 … 2000 Hz), acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1, Metal thread	
Pressure connection(4)		G1/4" Inside thread, with O-Ring sealing FPM spez.	G1/4" Outside thread，DIN 3852
Output type ——Type, ID No.	4...20 mA Current output +1 DO(PNP)	GPD-582-01VB-3， A5150105	GPD-588-01VB-3， A5750105
	0...10 V Voltage output + 1 DO(PNP)	GPD-582-01VB-4， A5150106	GPD-588-01VB-4， A5750106
	2 DO(PNP)	GPD-582-01VB-2， A5150104	GPD-588-01VB-2， A5750104
	4...20 mA Current output +2 DO(PNP)	GPD-582-01VB-5， A5150107	GPD-588-01VB-5， A5750107
	0...10 V Voltage output + 2 DO(PNP)	GPD-582-01VB-6， A5150108	GPD-588-01VB-6， A5750108

(1)Other types please see "type selection guide" or ask relative PM
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GPD-582-001B-...	GPD-588-001B-...	GPD-582-003B-...	GPD-588-003B-...
Liquids and gases		Liquids and gases	
0 ... 1 bar, Relative (2)		0 ... 2.5 bar, Relative (2)	
4 bar / 4 bar		10 bar / 10 bar	
17 ... 33 VDC		17 ... 33 VDC	
200 mA		200 mA	
-20 ... +80 °C		-20 ... +80 °C	
IP67		IP67	
Stainless steel 1.4404 / AISI 316L ceramic Al2O3 (96%) FPM		Stainless steel 1.4404 / AISI 316L ceramic Al2O3 (96%) FPM	
≤ 50 mA		≤ 50 mA	
< 0.5 kΩ >10 kΩ		< 0.5 kΩ >10 kΩ	
≤ 5 ms		≤ 5 ms	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.2 % fs /10 K		≤ ± 0.2 % fs /10 K	
≤ ± 0.5 % fs		≤ ± 0.5 % fs	
≤ ± 0.1 % fs		≤ ± 0.1 % fs	
50 g(11ms half sine wave), acc. IEC 60068-2-27		50 g(11ms half sine wave), acc. IEC 60068-2-27	
20 g (10 … 2000 Hz), acc. IEC 60068-2-6		20 g (10 … 2000 Hz), acc. IEC 60068-2-6	
Connector M12x1, Metal thread		Connector M12x1, Metal thread	
G1/4" Inside thread, with O-Ring sealing FPM spez.	G1/4" Outside thread , DIN 3852	G1/4" Inside thread, with O-Ring sealing FPM spez.	G1/4" Outside thread , DIN 3852
GPD-582-001B-3 , A5151105	GPD-588-001B-3 , A5751105	GPD-582-003B-3 , A5153105	GPD-588-003B-3 , A5753105
GPD-582-001B-4 , A5151106	GPD-588-001B-4 , A5751106	GPD-582-003B-4 , A5153106	GPD-588-003B-4 , A5753106
GPD-582-001B-2 , A5151104	GPD-588-001B-2 , A5751104	GPD-582-003B-2 , A5153104	GPD-588-003B-2 , A5753104
GPD-582-001B-5 , A5151107	GPD-588-001B-5 , A5751107	GPD-582-003B-5 , A5153107	GPD-588-003B-5 , A5753107
GPD-582-001B-6 , A5151108	GPD-588-001B-6 , A5751108	GPD-582-003B-6 , A5153108	GPD-588-003B-6 , A5753108

(1)Other types please see "type selection guide" or ask relative PM

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(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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- Accessories : page 70
- dimensional drawing : page 71
- Wiring diagram : page 71
- ------

Pressure Switch type (1)		GPD-582-006B-...	GPD-588-006B-...
Medium		Liquids and gases	
Pressure range		0 ... 6 bar, Relative (2)	
Max. allowable pressure		24 bar / 24 bar	
Power supply		17 ... 33 VDC	
Rated operation current (Digital output)		200 mA	
Temperature		-20 ... +80 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	ceramic Al2O3 (96%)	
	Sealing material	FPM	
Current consumption		≤ 50 mA	
Load risistanse	4...20 mA Current output	< 0.5 kΩ	
	0...10 V Voltage output	>10 kΩ	
Response time		≤ 5 ms	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.2 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.5 % fs	
Tolerance zero point		≤ ± 0.1 % fs	
Shock		50 g(11ms half sine wave), acc. IEC 60068-2-27	
Vibration		20 g (10 … 2000 Hz), acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1, Metal thread	
Pressure connection(4)		G1/4" Inside thread, with O-Ring sealing FPM spez.	G1/4" Outside thread , DIN 3852
Output type ——Type, ID No.	4...20 mA Current output +1 DO(PNP)	GPD-582-006B-3 , A5155105	GPD-588-006B-3 , A5755105
	0...10 V Voltage output + 1 DO(PNP)	GPD-582-006B-4 , A5155106	GPD-588-006B-4 , A5755106
	2 DO(PNP)	GPD-582-006B-2 , A5155104	GPD-588-006B-2 , A5755104
	4...20 mA Current output +2 DO(PNP)	GPD-502-006B-5 , A5155107	GPD-588-006B-5 , A5755107
	0...10 V Voltage output + 2 DO(PNP)	GPD-502-006B-6 , A5155108	GPD-588-006B-6 , A5755108

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GPD-582-010B-...	GPD-588-010B-...	GPD-582-016B-...	GPD-588-016B-...
Liquids and gases		Liquids and gases	
0 ... 10 bar, Relative (2)		0 ... 16 bar, Relative (2)	
40 bar / 40 bar		56 bar / 56 bar	
17 ... 33 VDC		17 ... 33 VDC	
200 mA		200 mA	
-20 ... +80 °C		-20 ... +80 °C	
IP67		IP67	
Stainless steel 1.4404 / AISI 316L ceramic Al2O3 (96%) FPM		Stainless steel 1.4404 / AISI 316L ceramic Al2O3 (96%) FPM	
≤ 50 mA		≤ 50 mA	
< 0.5 kΩ >10 kΩ		< 0.5 kΩ >10 kΩ	
≤ 5 ms		≤ 5 ms	
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
≤ ± 0.2 % fs /10 K		≤ ± 0.2 % fs /10 K	
≤ ± 0.5 % fs		≤ ± 0.5 % fs	
≤ ± 0.1 % fs		≤ ± 0.1 % fs	
50 g(11ms half sine wave), acc. IEC 60068-2-27		50 g(11ms half sine wave), acc. IEC 60068-2-27	
20 g (10 … 2000 Hz), acc. IEC 60068-2-6		20 g (10 … 2000 Hz), acc. IEC 60068-2-6	
Connector M12x1, Metal thread		Connector M12x1, Metal thread	
G1/4" Inside thread, with O-Ring sealing FPM spez.	G1/4" Outside thread，DIN 3852	G1/4" Inside thread, with O-Ring sealing FPM spez.	G1/4" Outside thread，DIN 3852
GPD-582-010B-3， A5156105	GPD-588-010B-3， A5756105	GPD-582-016B-3， A5157105	GPD-588-016B-3， A5757105
GPD-582-010B-4， A5156106	GPD-588-010B-4， A5756106	GPD-582-016B-4， A5157106	GPD-588-016B-4， A5757106
GPD-582-010B-2， A5156104	GPD-588-010B-2， A5756104	GPD-582-016B-2， A5157104	GPD-588-016B-2， A5757104
GPD-582-010B-5， A5156107	GPD-588-010B-5， A5756107	GPD-582-016B-5， A5157107	GPD-588-016B-5， A5757107
GPD-582-010B-6， A5156108	GPD-588-010B-6， A5756108	GPD-582-016B-6， A5157108	GPD-588-016B-6， A5757108

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- Wiring diagram : page 71
- ------

Pressure Switch type (1)		GPD-582-025B-...	GPD-588-025B-...
Medium		Liquids and gases	
Pressure range		0 ... 25 bar, Relative (2)	
Max. allowable pressure		87.5 bar / 87.5 bar	
Power supply		17 ... 33 VDC	
Rated operation current (Digital output)		200 mA	
Temperature		-20 ... +80 °C	
Protection class		IP67	
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L	
	Sensor	ceramic Al2O3 (96%)	
	Sealing material	FPM	
Current consumption		≤ 50 mA	
Load risistanse	4...20 mA Current output	< 0.5 kΩ	
	0...10 V Voltage output	>10 kΩ	
Response time		≤ 5 ms	
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	
TC		≤ ± 0.2 % fs /10 K	
Total of linearity hysteresis and repeatability		≤ ± 0.5 % fs	
Tolerance zero point		≤ ± 0.1 % fs	
Shock		50 g(11ms half sine wave), acc. IEC 60068-2-27	
Vibration		20 g (10 … 2000 Hz), acc. IEC 60068-2-6	
Electrical connection(3)		Connector M12x1, Metal thread	
Pressure connection(4)		G1/4" Inside thread, with O-Ring sealing	G1/4" Outside thread , DIN 3852
Output type ——Type, ID No.	4...20 mA Current output +1 DO(PNP)	GPD-582-025B-3 , A5158105	GPD-588-025B-3 , A5758105
	0...10 V Voltage output + 1 DO(PNP)	GPD-582-025B-4 , A5158106	GPD-588-025B-4 , A5758106
	2 DO(PNP)	GPD-582-025B-2 , A5158104	GPD-588-025B-2 , A5758104
	4...20 mA Current output +2 DO(PNP)	GPD-502-025B-5 , A5158107	GPD-588-025B-5 , A5758107
	0...10 V Voltage output + 2 DO(PNP)	GPD-502-025B-6 , A5158108	GPD-588-025B-6 , A5758108

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GPD-582-040B-...	GPD-588-040B-...	
Liquids and gases		
0 ... 40 bar, Relative (2)		
140 bar / 140 bar		
17 ... 33 VDC		
200 mA		
-20 ... +80 °C		
IP67		
Stainless steel 1.4404 / AISI 316L ceramic Al2O3 (96%) FPM		
≤ 50 mA		
< 0.5 kΩ >10 kΩ		
≤ 5 ms		
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.		
≤ ± 0.2 % fs /10 K		
≤ ± 0.5 % fs		
≤ ± 0.1 % fs		
50 g(11ms half sine wave), acc. IEC 60068-2-27		
20 g (10 … 2000 Hz), acc. IEC 60068-2-6		
Connector M12x1, Metal thread		
G1/4" Inside thread, with O-Ring sealing FPM spez.	G1/4" Outside thread，DIN 3852	
GPD-582-040B-3， A5159105 GPD-582-040B-4， A5159106 GPD-582-040B-2， A5159104 GPD-582-040B-5， A5159107 GPD-582-040B-6， A5159108	GPD-588-040B-3， A5759105 GPD-588-040B-4， A5759106 GPD-588-040B-2， A5759104 GPD-588-040B-5， A5759107 GPD-588-040B-6， A5759108	

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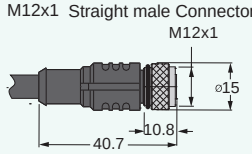
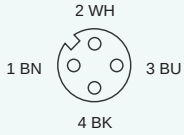
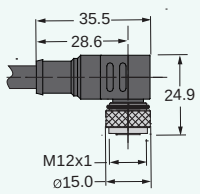
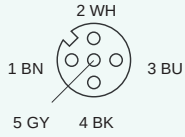
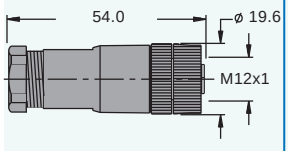
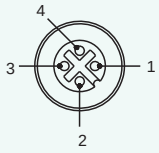
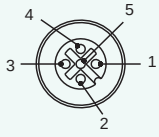
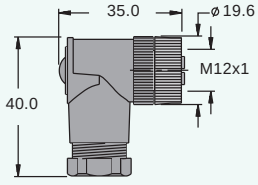
Electrical connections (5)

(5)Other connector types please ask connector product manager

Precast cable

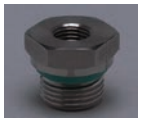
		Pin Number	Cable Length	ID No.	Type
M12x1 Straight male Connector 		4	2m	10011010	EK4-2M/P00
			5m	10011011	EK4-5M/P00
			10m	10011012	EK4-10M/P00
		5	2m	10011020	EK4.5-2M/P00
			5m	10011021	EK4.5-5M/P00
			10m	10011022	EK4.5-10M/P00
M12x1 Angle male Connector 		4	2m	10011040	ELK4-2M/P00
			5m	10011041	ELK4-5M/P00
			10m	10011042	ELK4-10M/P00
		5	2m	10011050	ELK4.5-2M/P00
			5m	10011051	ELK4.5-5M/P00
			10m	10011052	ELK4.5-10M/P00

Swift connector

		Pin Number	Cable diameter	Outlet	ID No.	Type
M12x1 Straight Female Connector 		4	4-6 mm	PG7	10091000	EK4112-0/7
			6-8 mm	PG9	10091001	EK4112-0/9
		5	6-8 mm	PG9	10091002	EK5112-0/9
M12x1 Angle Female Connector 	PBT , Black / Brass nickel plated, Spring-type terminals 85°C , 250 V , 4 A	4	4-6 mm	PG7	10091010	ELK4112-0/7
			6-8 mm	PG9	10091011	ELK4112-0/9
		5	6-8 mm	PG9	10091012	ELK5112-0/9

Accessories (6)

(6)Other mounting accessories types with different thread please ask relative product manager

	Instruction	Type , ID No.
	Thread conversion device , G1/4" to G1/4" Outside thread Shell material: Stainless steel	GPA-G1/4M-G1/4M-A4 , B5130010
	Thread conversion device , G1/4" to G1/2" Outside thread Shell material: Stainless steel	GPA-G1/4M-G1/2M-A4 , B5140010
	Thread conversion device , G1/4" Inside thread to M20X1.5 Outside thread, Shell material: Stainless steel	GPA-G1/4M-M20X1.5M-A4 , B5180010
	Thread conversion device , G1/4" Inside to G1/4" Outside thread Shell material: Stainless steel	GPA-G1/4F-G1/4M-A4 , B5130110
	Thread conversion device , G1/4" Inside to G1/2" Outside thread Shell material: Stainless steel	GPA-G1/4F-G1/2M-A4 , B5140110

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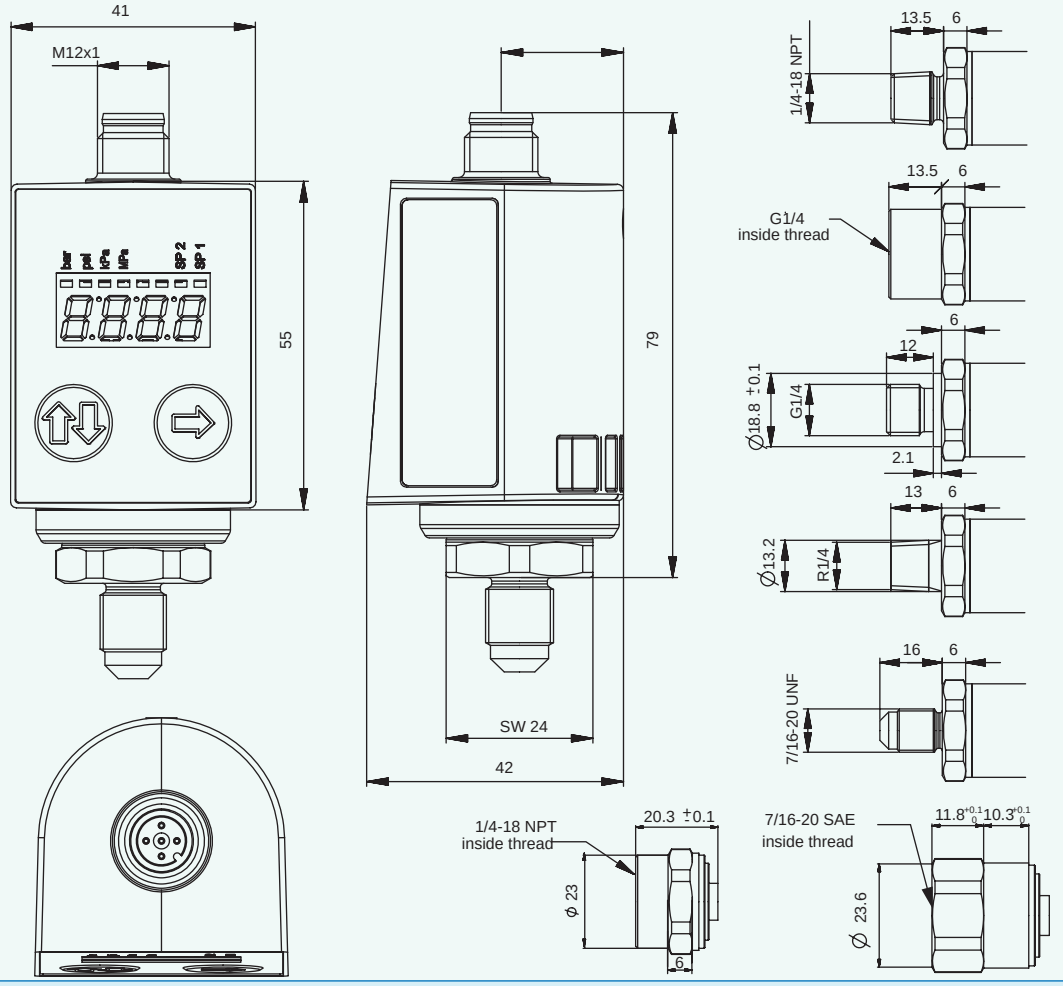
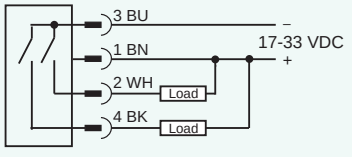
Dimensional drawing



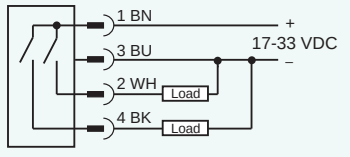
Wiring diagram

M12x1 circular connectors

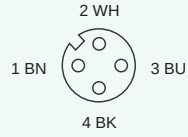
NPN



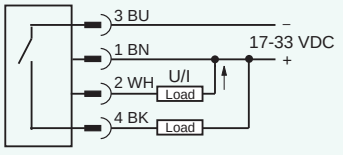
PNP



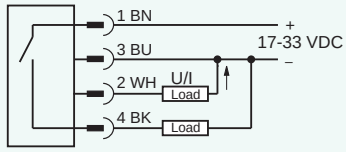
2 DO
PNP or NPN
NO/NC programmable



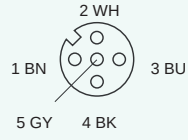
NPN



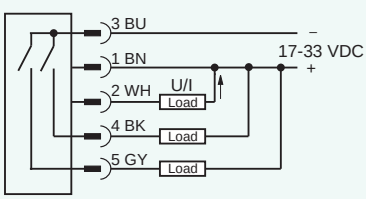
PNP



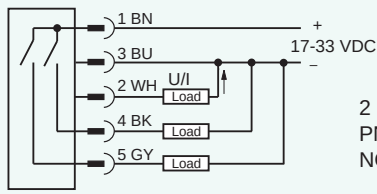
1 DO + 1 AO
PNP or NPN
NO/NC programmable



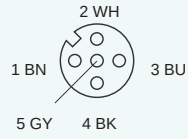
NPN



PNP



2 DO + 1 AO
PNP or NPN
NO/NC programmable



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GPD-69...

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- Diagnostic function
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- Certified :

- Connector : page 81
- Accessories : page 81
- dimensional drawing : page 82
- Wiring diagram : page 83
- ------

Pressure Switch type (1)		GPD-692-01VB-...
Medium		Liquids and gases
Pressure range		-1 ... 0 bar, Relative (2)
Max. allowable pressure		4 bar / 6 bar
Power supply		17 ... 33 VDC
Rated operation current (Digital output)		200 mA
Temperature		-20 ... +80 °C
Protection class		IP67
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L
	Sensor	ceramic Al2O3 (96%)
	Sealing material	FPM
Current consumption		< 200 mA , typ. 50 mA
Load risistanse	4...20 mA Current output	< 0.5 kΩ
	0...10 V Voltage output	>10 kΩ
Response time		typ. 5 ms
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.
TC	TC zero point	≤ ± 0.5 % fs /10 K
	TC sensitivity	≤ ± 0.15 % fs /10 K
Total of linearity hysteresis and repeatability		≤ ± 0.5 % fs
Tolerance zero point		≤ ± 0.5 % fs
Tolerance		≤ ± 0.5 % fs
Shock		50 g(11ms half sine wave), acc. IEC 60068-2-27
Vibration		20 g (10 … 2000 Hz), acc. IEC 60068-2-6
Electrical connection(3)		Connector M12x1, Metal thread
Pressure connection(4)		G1/4" Inside thread, with O-Ring sealing
Output type ——Type, ID No.	4...20 mA Current output + 1 DO(PNP/NPN)	GPD-692-01VB-3 , A5160105
	0...10 V Voltage output + 1 DO(PNP/NPN)	GPD-692-01VB-4 , A5150106
	2 DO(PNP/NPN)	GPD-692-01VB-2 , A5150104

(1)Other types please see "type selection guide" or ask relative PM
(2)Types with absolute pressure measuring haven't provided at present, ask PM if necessory
(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time
(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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GPD-692-001B-...	GPD-692-003B-...
Liquids and gases	Liquids and gases
0 ... 1 bar, Relative (2)	0 ... 2.5 bar, Relative (2)
4 bar / 6 bar	10 bar / 15 bar
17 ... 33 VDC	17 ... 33 VDC
200 mA	200 mA
-20 ... +80 °C	-20 ... +80 °C
IP67	IP67
Stainless steel 1.4404 / AISI 316L ceramic Al2O3 (96%) FPM	Stainless steel 1.4404 / AISI 316L ceramic Al2O3 (96%) FPM
< 200 mA , typ. 50 mA	< 200 mA , typ. 50 mA
< 0.5 kΩ >10 kΩ	< 0.5 kΩ >10 kΩ
typ. 5 ms	typ. 5 ms
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.
≤ ± 0.5 % fs /10 K ≤ ± 0.15 % fs /10 K	≤ ± 0.5 % fs /10 K ≤ ± 0.15 % fs /10 K
≤ ± 0.5 % fs	≤ ± 0.5 % fs
≤ ± 0.5 % fs	≤ ± 0.5 % fs
≤ ± 0.5 % fs	≤ ± 0.5 % fs
50 g(11ms half sine wave), acc. IEC 60068-2-27	50 g(11ms half sine wave), acc. IEC 60068-2-27
20 g (10 … 2000 Hz), acc. IEC 60068-2-6	20 g (10 … 2000 Hz), acc. IEC 60068-2-6
Connector M12x1, Metal thread	Connector M12x1, Metal thread
G1/4” Inside thread, with O-Ring sealing	G1/4” Inside thread, with O-Ring sealing
GPD-692-001B-3 , A5161105 GPD-692-001B-4 , A5161106 GPD-692-001B-2 , A5161104	GPD-692-003B-3 , A5163105 GPD-692-003B-4 , A5163106 GPD-692-003B-2 , A5163104

(1)Other types please see “type selection guide” or ask relative PM

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(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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- Connector : page 81
- Accessories : page 81
- dimensional drawing : page 82
- Wiring diagram : page 83
- ------

Pressure Switch type (1)		GPD-692-010B-...
Medium		Liquids and gases
Pressure range		0 ... 10 bar, Relative (2)
Max. allowable pressure		40 bar / 60 bar
Power supply		17 ... 33 VDC
Rated operation current (Digital output)		200 mA
Temperature		-20 ... +80 °C
Protection class		IP67
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L
	Sensor	ceramic Al2O3 (96%)
	Sealing material	FPM
Current consumption		< 200 mA , typ. 50 mA
Load risistanse	4...20 mA Current output	< 0.5 kΩ
	0...10 V Voltage output	>10 kΩ
Response time		typ. 5 ms
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.
TC	TC zero point	≤ ± 0.5 % fs /10 K
	TC sensitivity	≤ ± 0.15 % fs /10 K
Total of linearity hysteresis and repeatability		≤ ± 0.5 % fs
Tolerance zero point		≤ ± 0.5 % fs
Tolerance		≤ ± 0.5 % fs
Shock		50 g(11ms half sine wave), acc. IEC 60068-2-27
Vibration		20 g (10 … 2000 Hz), acc. IEC 60068-2-6
Electrical connection(3)		Connector M12x1, Metal thread
Pressure connection(4)		G1/4" Inside thread, with O-Ring sealing
Output type ——Type, ID No.	4...20 mA Current output + 1 DO(PNP/NPN)	GPD-692-010B-3 , A5166105
	0...10 V Voltage output + 1 DO(PNP/NPN)	GPD-692-010B-4 , A5166106
	2 DO(PNP/NPN)	GPD-692-010B-2 , A5166104

(1)Other types please see "type selection guide" or ask relative PM
(2)Types with absolute pressure measuring haven't provided at present, ask PM if necessory
(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time
(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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GPD-692-016B-...	GPD-692-025B-...
Liquids and gases	Liquids and gases
0 ... 16 bar, Relative (2)	0 ... 25 bar, Relative (2)
64 bar / 96 bar	100 bar / 150 bar
17 ... 33 VDC	17 ... 33 VDC
200 mA	200 mA
-20 ... +80 °C	-20 ... +80 °C
IP67	IP67
Stainless steel 1.4404 / AISI 316L ceramic Al2O3 (96%) FPM	Stainless steel 1.4404 / AISI 316L ceramic Al2O3 (96%) FPM
< 200 mA , typ. 50 mA	< 200 mA , typ. 50 mA
< 0.5 kΩ >10 kΩ	< 0.5 kΩ >10 kΩ
typ. 5 ms	typ. 5 ms
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.
≤ ± 0.5 % fs /10 K ≤ ± 0.15 % fs /10 K	≤ ± 0.5 % fs /10 K ≤ ± 0.15 % fs /10 K
≤ ± 0.5 % fs	≤ ± 0.5 % fs
≤ ± 0.5 % fs	≤ ± 0.5 % fs
≤ ± 0.5 % fs	≤ ± 0.5 % fs
50 g(11ms half sine wave), acc. IEC 60068-2-27	50 g(11ms half sine wave), acc. IEC 60068-2-27
20 g (10 … 2000 Hz), acc. IEC 60068-2-6	20 g (10 … 2000 Hz), acc. IEC 60068-2-6
Connector M12x1, Metal thread	Connector M12x1, Metal thread
G1/4” Inside thread, with O-Ring sealing	G1/4” Inside thread, with O-Ring sealing
GPD-692-016B-3 , A5167105 GPD-692-016B-4 , A5167106 GPD-692-016B-2 , A5167104	GPD-692-025B-3 , A5168105 GPD-692-025B-4 , A5168106 GPD-692-025B-2 , A5168104

(1)Other types please see “type selection guide” or ask relative PM

(2)Types with absolute pressure measuring haven’t provided at present, ask PM if necessory

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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- Connector : page 81
- Accessories : page 81
- dimensional drawing : page 82
- Wiring diagram : page 83
- ------

Pressure Switch type (1)		GPD-692-040B-...
Medium		Liquids and gases
Pressure range		0 ... 40 bar, Relative (2)
Max. allowable pressure		160 bar / 240 bar
Power supply		17 ... 33 VDC
Rated operation current (Digital output)		200 mA
Temperature		-20 ... +80 °C
Protection class		IP67
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L
	Sensor	ceramic Al2O3 (96%)
	Sealing material	FPM
Current consumption		< 200 mA , typ. 50 mA
Load risistanse	4...20 mA Current output	< 0.5 kΩ
	0...10 V Voltage output	>10 kΩ
Response time		typ. 5 ms
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.
TC	TC zero point	≤ ± 0.5 % fs /10 K
	TC sensitivity	≤ ± 0.15 % fs /10 K
Total of linearity hysteresis and repeatability		≤ ± 0.5 % fs
Tolerance zero point		≤ ± 0.5 % fs
Tolerance		≤ ± 0.5 % fs
Shock		50 g(11ms half sine wave), acc. IEC 60068-2-27
Vibration		20 g (10 … 2000 Hz), acc. IEC 60068-2-6
Electrical connection(3)		Connector M12x1, Metal thread
Pressure connection(4)		G1/4" Inside thread, with O-Ring sealing
Output type ——Type, ID No.	4...20 mA Current output + 1 DO(PNP/NPN)	GPD-692-040B-3 , A5169105
	0...10 V Voltage output + 1 DO(PNP/NPN)	GPD-692-040B-4 , A5169106
	2 DO(PNP/NPN)	GPD-692-040B-2 , A5169104

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GPD-692-075B-...	GPD-692-100B-...
Liquids and gases	Liquids and gases
0 ... 70 bar, Relative (2)	0 ... 100 bar, Relative (2)
280 bar / 420 bar	400 bar / 600 bar
17 ... 33 VDC	17 ... 33 VDC
200 mA	200 mA
-20 ... +80 °C	-20 ... +80 °C
IP67	IP67
Stainless steel 1.4404 / AISI 316L ceramic Al2O3 (96%) FPM	Stainless steel 1.4404 / AISI 316L ceramic Al2O3 (96%) FPM
< 200 mA , typ. 50 mA	< 200 mA , typ. 50 mA
< 0.5 kΩ >10 kΩ	< 0.5 kΩ >10 kΩ
typ. 5 ms	typ. 5 ms
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.
≤ ± 0.5 % fs /10 K ≤ ± 0.15 % fs /10 K	≤ ± 0.5 % fs /10 K ≤ ± 0.15 % fs /10 K
≤ ± 0.5 % fs	≤ ± 0.5 % fs
≤ ± 0.5 % fs	≤ ± 0.5 % fs
≤ ± 0.5 % fs	≤ ± 0.5 % fs
50 g(11ms half sine wave), acc. IEC 60068-2-27	50 g(11ms half sine wave), acc. IEC 60068-2-27
20 g (10 … 2000 Hz), acc. IEC 60068-2-6	20 g (10 … 2000 Hz), acc. IEC 60068-2-6
Connector M12x1, Metal thread	Connector M12x1, Metal thread
G1/4” Inside thread, with O-Ring sealing	G1/4” Inside thread, with O-Ring sealing
GPD-692-075B-3 , A516H105 GPD-692-075B-4 , A516H106 GPD-692-075B-2 , A516H104	GPD-692-100B-3 , A516B105 GPD-692-100B-4 , A516B106 GPD-692-100B-2 , A516B104

(1)Other types please see “type selection guide” or ask relative PM

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- Connector : page 81
- Accessories : page 81
- dimensional drawing : page 82
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Pressure Switch type (1)		GPD-692-160B-...
Medium		Liquids and gases
Pressure range		0 ... 160 bar, Relative (2)
Max. allowable pressure		640 bar / 960 bar
Power supply		17 ... 33 VDC
Rated operation current (Digital output)		200 mA
Temperature		-20 ... +80 °C
Protection class		IP67
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L
	Sensor	ceramic Al2O3 (96%)
	Sealing material	FPM
Current consumption		< 200 mA , typ. 50 mA
Load risistanse	4...20 mA Current output	< 0.5 kΩ
	0...10 V Voltage output	>10 kΩ
Response time		typ. 5 ms
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.
TC	TC zero point	≤ ± 0.5 % fs /10 K
	TC sensitivity	≤ ± 0.15 % fs /10 K
Total of linearity hysteresis and repeatability		≤ ± 0.5 % fs
Tolerance zero point		≤ ± 0.5 % fs
Tolerance		≤ ± 0.5 % fs
Shock		50 g(11ms half sine wave), acc. IEC 60068-2-27
Vibration		20 g (10 … 2000 Hz), acc. IEC 60068-2-6
Electrical connection(3)		Connector M12x1, Metal thread
Pressure connection(4)		G1/4" Inside thread, with O-Ring sealing
Output type ——Type, ID No.	4...20 mA Current output + 1 DO(PNP/NPN)	GPD-692-160B-3 , A516C105
	0...10 V Voltage output + 1 DO(PNP/NPN)	GPD-692-160B-4 , A516C106
	2 DO(PNP/NPN)	GPD-692-160B-2 , A516C104

(1)Other types please see "type selection guide" or ask relative PM
(2)Types with absolute pressure measuring haven't provided at present, ask PM if necessory
(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time
(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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GPD-692-250B-...	GPD-692-400B-...
Liquids and gases	Liquids and gases
0 ... 250 bar, Relative (2)	0 ... 400 bar, Relative (2)
1000 bar / 1500 bar	1200 bar / 1800 bar
17 ... 33 VDC	17 ... 33 VDC
200 mA	200 mA
-20 ... +80 °C	-20 ... +80 °C
IP67	IP67
Stainless steel 1.4404 / AISI 316L ceramic Al2O3 (96%) FPM	Stainless steel 1.4404 / AISI 316L ceramic Al2O3 (96%) FPM
< 200 mA , typ. 50 mA	< 200 mA , typ. 50 mA
< 0.5 kΩ >10 kΩ	< 0.5 kΩ >10 kΩ
typ. 5 ms	typ. 5 ms
Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.	Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.
≤ ± 0.5 % fs /10 K ≤ ± 0.15 % fs /10 K	≤ ± 0.5 % fs /10 K ≤ ± 0.15 % fs /10 K
≤ ± 0.5 % fs	≤ ± 0.5 % fs
≤ ± 0.5 % fs	≤ ± 0.5 % fs
≤ ± 0.5 % fs	≤ ± 0.5 % fs
50 g(11ms half sine wave), acc. IEC 60068-2-27	50 g(11ms half sine wave), acc. IEC 60068-2-27
20 g (10 … 2000 Hz), acc. IEC 60068-2-6	20 g (10 … 2000 Hz), acc. IEC 60068-2-6
Connector M12x1, Metal thread	Connector M12x1, Metal thread
G1/4” Inside thread, with O-Ring sealing	G1/4” Inside thread, with O-Ring sealing
GPD-692-250B-3 , A516D105 GPD-692-250B-4 , A516D106 GPD-692-250B-2 , A516D104	GPD-692-400B-3 , A516E105 GPD-692-400B-4 , A516E106 GPD-692-400B-2 , A516E104

(1)Other types please see “type selection guide” or ask relative PM

(2)Types with absolute pressure measuring haven’t provided at present, ask PM if necessory

(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time

(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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69 Series Pressure Switch With Digital Display

GPD-69...

- Rugged construction, High over pressure
- Ceramic Al_2O_3 as the sensor
- Clearly readable display, Sensitive operation keys
- Diagnostic function
- suitable for an extremely wide range of demanding industrial applications
- Certified :

- Connector : page 81
- Accessories : page 81
- dimensional drawing : page 82
- Wiring diagram : page 83
- ------

Pressure Switch type (1)		GPD-692-600B-...
Medium		Liquids and gases
Pressure range		0 ... 600 bar, Relative (2)
Max. allowable pressure		1200 bar / 1800 bar
Power supply		17 ... 33 VDC
Rated operation current (Digital output)		200 mA
Temperature		-20 ... +80 °C
Protection class		IP67
Materials in contact with the medium	Pressure connection	Stainless steel 1.4404 / AISI 316L
	Sensor	ceramic Al2O3 (96%)
	Sealing material	FPM
Current consumption		< 200 mA , typ. 50 mA
Load risistanse	4...20 mA Current output	< 0.5 kΩ
	0...10 V Voltage output	>10 kΩ
Response time		typ. 5 ms
Electrical protection		Short circuit proof and protected against polarity reversal. Each connection is protected against crossover up to max. supply voltage.
TC	TC zero point	≤ ± 0.5 % fs /10 K
	TC sensitivity	≤ ± 0.15 % fs /10 K
Total of linearity hysteresis and repeatability		≤ ± 0.5 % fs
Tolerance zero point		≤ ± 0.5 % fs
Tolerance		≤ ± 0.5 % fs
Shock		50 g(11ms half sine wave), acc. IEC 60068-2-27
Vibration		20 g (10 … 2000 Hz), acc. IEC 60068-2-6
Electrical connection(3)		Connector M12x1, Metal thread
Pressure connection(4)		G1/4" Inside thread, with O-Ring sealing
Output type ——Type, ID No.	4...20 mA Current output + 1 DO(PNP/NPN)	GPD-692-600B-3 , A516F105
	0...10 V Voltage output + 1 DO(PNP/NPN)	GPD-692-600B-4 , A516F106
	2 DO(PNP/NPN)	GPD-692-600B-2 , A516F104

(1)Other types please see "type selection guide" or ask relative PM
(2)Types with absolute pressure measuring haven't provided at present, ask PM if necessory
(3)Other types with different electric connection please see dimension drawing and ask relative PM at the same time
(4)Other types with different pressure connection please see dimension drawing and ask relative PM at the same time

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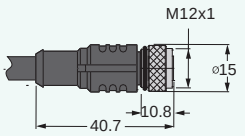
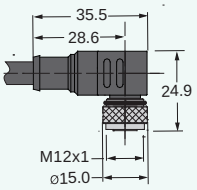
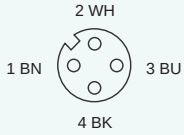
Electrical connections (5)

(5)Other connector types please ask connector product manager

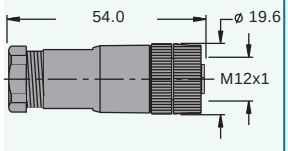
Precast cable	Pin Number	Cable Length	ID No.	Type
M12x1 Straight male Connector	4	2m	10011010	EK4-2M/P00
		5m	10011011	EK4-5M/P00
		10m	10011012	EK4-10M/P00
M12x1 Angle male Connector	4	2m	10011040	ELK4-2M/P00
		5m	10011041	ELK4-5M/P00
		10m	10011042	ELK4-10M/P00

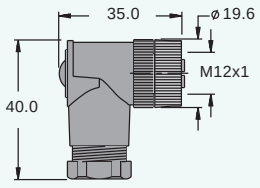


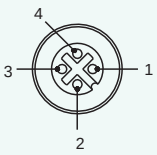




Swift connector	Pin Number	Cable diameter	Outlet	ID No.	Type
M12x1 Straight Female Connector	4	4-6 mm	PG7	10091000	EK4112-0/7
		6-8 mm	PG9	10091001	EK4112-0/9
M12x1 Angle Female Connector	4	4-6 mm	PG7	10091010	ELK4112-0/7
		6-8 mm	PG9	10091011	ELK4112-0/9







PBT , Black /
Brass nickel plated,
Spring-type terminals
85°C , 250 V , 4 A

Accessories (6)

(6)Other mounting accessories types with different thread please ask relative product manager

	Instruction	Type , ID No.
	Thread conversion device , G1/4" to G1/4" Outside thread Shell material: Stainless steel	GPA-G1/4M-G1/4M-A4 , B5130010
	Thread conversion device , G1/4" to G1/2" Outside thread Shell material: Stainless steel	GPA-G1/4M-G1/2M-A4 , B5140010
	Thread conversion device , G1/4" Inside thread to M20X1.5 Outside thread, Shell material: Stainless steel	GPA-G1/4M-M20X1.5M-A4 , B5180010

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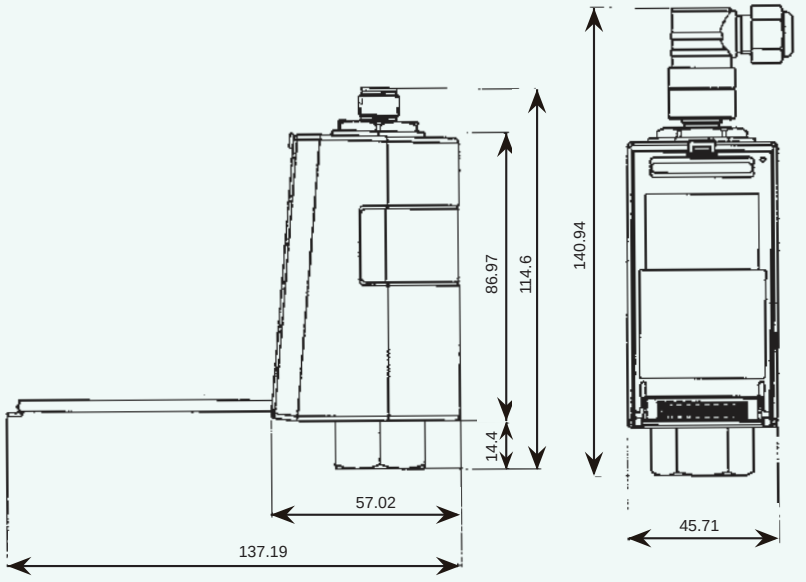
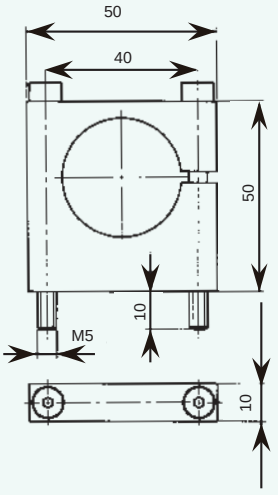
Dimensional drawing



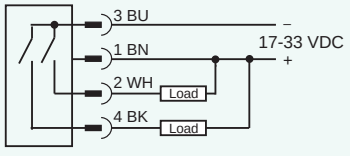
Accessories



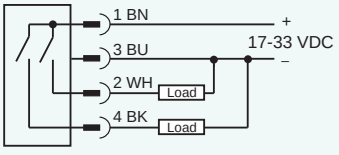
Wiring diagram

M12x1 circular connectors

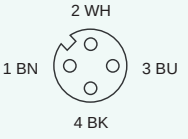
NPN



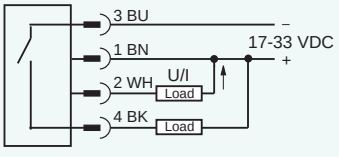
PNP



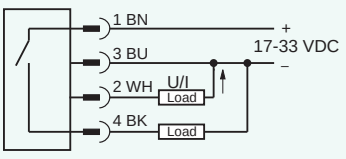
2 DO
PNP / NPN
NO/NC programmable



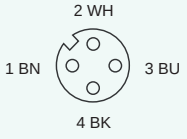
NPN



PNP



1 DO + 1 AO
PNP or NPN
NO/NC programmable



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