

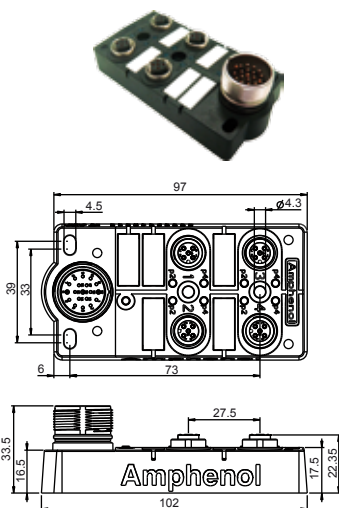
ALTW's New M12 Passive Distribution Boxes

Amphenol LTW introduces its new range of M12 Passive Distribution Boxes that will create optimum installations in the area of Industrial Automation. These M12 I/O boxes interface multiple devices to the control system and are a great way to increase flexibility and cut costs by reducing installation and troubleshooting time. They require less space than loose wires, look neater and more organized, and keep cable replacement simple in areas where cables are easily damaged.

Designed with IP67 protection, the M12 Distribution Boxes are built for use in harsh industrial environments. The boxes are available with 4 and 5 Pin Sockets (A-Coded) in 4 and 8 ports configurations with **M23 Home-Run Connector** or **Cable Output** to choose from. These boxes accept industry-standard, threaded M12 connectors. All boxes utilize LEDs to display status and operation mode of the I/O ports and are equipped with removable identification label.

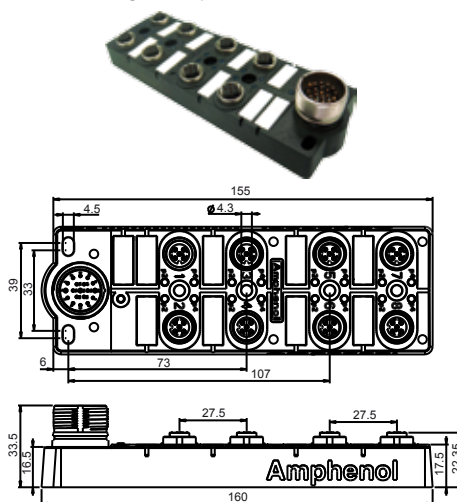
A DB12-5A4M23-DPS7001

M12 5Pin Female Conn., 4 Port Distri Box to M23 Home-Run Conn, Dual Signal Output, PNP, IP67



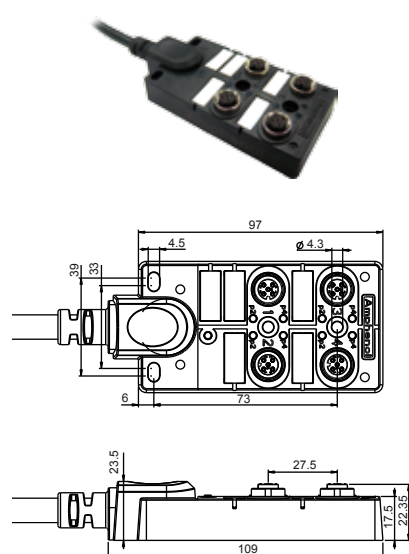
B DB12-5A8M23-DPS7001

M12 5Pin Female Conn., 8 Port Distri Box to M23 Home-Run Conn, Dual Signal Output, PNP, IP67



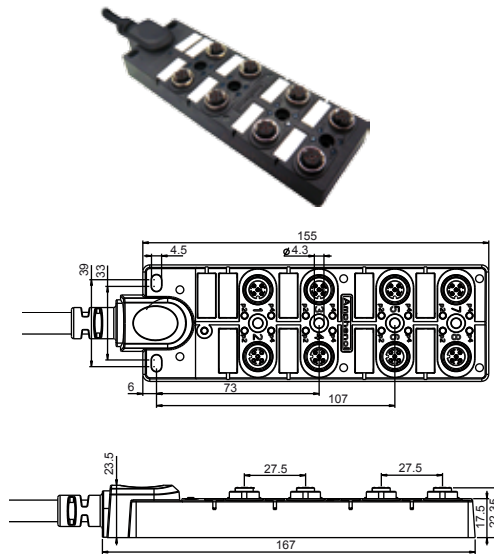
C DB12-5A4CAB-DPS7B01

M12, 5Pin Female Conn., 4 Port Distri Box to Cable Home-Run Conn, Dual Signal Output, PNP, IP67



D DB12-5A8CAB-DPS7B01

M12, 5Pin Female Conn., 8 Port Distri Box to Cable Home-Run Conn, Dual Signal Output, PNP, IP67



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Innovation in Waterproof Solution

Benefits :



Cost-Effective



Saves Space

· Narrower width for more space saving requirement



Harsh Environment



cUL Approval



Oil Resistant



Possibility of Branding or Private Labeling



Waterproof IP 67



Markings Available

· Marked Pin outs on M12 & M23 Connectors for guaranteed wiring configuration on mating side.



Colored LED Display

· for clearer signal status



M12 connectors In Different Codings Are Possible



Fireproof (UL94V-0) rated



Safe & Protected

· Grounded connectors for personal protection



Assembly Compatibility

· Drilling holes conforming to other manufacturers' layout and with additional holes for customized arrangement

Specifications :

| General Characteristics | | |
|----------------------------|-----------------|--|
| Sensor Connections | IEC 61076-2-101 | M12, 5Pin Female Conn. |
| Controller Connection | - | <ul style="list-style-type: none"> • M23, 19Pin Male Conn. • UL20549 16C*0.34mm2+ 3C*1.0mm2, PUR (Cable) |
| Cable Lengths (Cable only) | - | 5M, 10M, 15M, 20M & 30M |
| Mounting Type | - | 4+2 * M4 (8Port) 3+1 * M4 (4Port) |
| Power Indicator | - | LED, Green |
| Function Indicator | - | LED, Yellow |
| Waterproof Rating | IEC 60529 | IP 67 Unmated |
| Oil Resistance | - | Yes |

| Technical Characteristics - Materials & Finishes | | |
|--|----------|------------------------------|
| Housing | UL 94V-0 | PA66 |
| Box | UL 94V-0 | PBT+PC |
| Contact | - | Copper Alloy |
| Contact Finish | - | Gold Plated |
| O-ring | UL 94V-0 | Silicone |
| Shell | - | Zinc Die Cast, Nickel Plated |

| Technical Characteristics - Certificate/Approval | | |
|--|---|---------|
| cUL | - | Pending |

| Technical Characteristics - Electrical | |
|--|-------------------------|
| Current Load per Contact | 2A |
| Current Sum max. | 12A |
| Operating Voltage | 24V DC Nominal (10~30V) |
| Switching Output | PNP |
| Switching Function | NO / NC |

| Technical Characteristics - Mechanical | | |
|--|-----------------|--|
| Operating temperature | - | -25 °C ~ +90°C -20 °C ~ +80°C (cable) |
| Storage Temperature | - | -30 °C ~ +105°C |
| M12 Insertion and withdrawal force | IEC 61076-2-101 | Insertion: 10N; Withdrawal: 15N |
| M12 Mechanical Operation | IEC 61076-2-101 | 100X |
| Vibration | IEC 61076-2-101 | 10 to 500 Hz and 0.35mm |
| Cable Max. Drag Flexing cycles | - | 2000000 @ 1000mm moving distance, 20x/min. |

Accessories :

We offer a variety of accessories for the M12 Distribution Boxes which includes:

- Cordsets or Cable Assemblies
- Field attachable connectors
- Labels
- Sealing caps (Plastic & Metal)
- Splitters



For further information, please contact :



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Innovation in Waterproof Solution

* Design and specifications are subject to change without notice.