



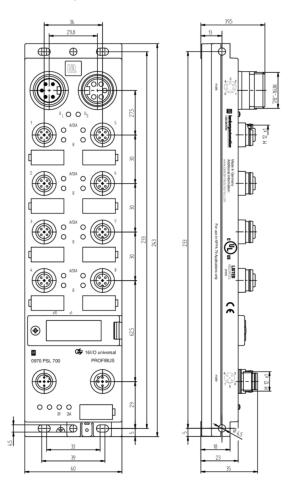
Product: <u>0970 PSL 700</u> ☑

LioN-M, PROFIBUS I/O Device, 16DIO (8x M12), 7/8" Power Supply, Plastic, 60 mm

Product Description

LioN-M M12-60, Plastic, PROFIBUS, M12 Bus Connector, B-coded, 16 DIO, 7/8" Power Supply, 5-poles

Technical Drawing



Technical Specifications

Product Description

| Brand: | Belden |
|---------------------|----------------------------------|
| Product Family: | I/O Systems: Active - Standalone |
| Product Sub Family: | LioN-M |
| Item Description: | 0970 PSL 700 |
| Part Number: | 75514 |
| Device Type: | I/O Module |

| Protocol: | PROFIBUS |
|-----------------------------------|--------------------------------|
| I/O Function: | 16DIO |
| Bus Connection: | M12, 5-poles, B-coded |
| Power Connection (System Supply): | 7/8" Power, 5-poles |
| I/O Connection: | M12, 5-poles, A-coded |
| I/O Type: | Digital In-/Output (Universal) |

General Data

| Housing Material:PBT + ASAHousing Color:BlackProtection Degree / IP Rating**:IP67Potted:NoDimensions (W x H x D):60 mm x 40 mm x 243 mmWeight:390 gAmbient Temperature (Operation)*:-10 °C to 60 °CVibration Resistance:10 g / 5 -500 HzShock Resistance:50 g / 11msContact Base Material:M12, B-coded, CuSn, Gold-plated 7/8" CuZn, Gold-platedContact Bearer Material:PA / TPUO-Ring Material:FKMMounting:2 hole screw mounting. Use standard M4 x 25 / 30 screws with toothed lock washer (as per DIN 125) and self-locking in the statening Torque (Fixing Screw):M4: 1 NmFastening Torque (Ground Connection):M2: 0.5 NmFastening Torque (Power Connection):M12: 0.5 Nm | | |
|--|--|--|
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| Contact Bearer Material: PA / TPU O-Ring Material: FKM Mounting: 2 hole screw mounting. Use standard M4 x 25 / 30 screws with toothed lock washer (as per DIN 125) and self-locking numbers of the stening Torque (Fixing Screw): M4: 1 Nm Fastening Torque (Ground Connection (FE)): M4: 1 Nm Fastening Torque (Bus Connection): M12: 0.5 Nm Fastening Torque (Power Connection): 7/8": 1.5 Nm Fastening Torque (I/O Connection): M12: 0.5 Nm | Shock Resistance: | 50 g / 11ms |
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| Fastening Torque (Fixing Screw): M4: 1 Nm Fastening Torque (Ground Connection (FE)): M4: 1 Nm Fastening Torque (Bus Connection): M12: 0.5 Nm Fastening Torque (Power Connection): 7/8": 1.5 Nm Fastening Torque (I/O Connection): M12: 0.5 Nm | O-Ring Material: | FKM |
| Fastening Torque (Ground Connection (FE)): M4: 1 Nm Fastening Torque (Bus Connection): M12: 0.5 Nm Fastening Torque (Power Connection): 7/8": 1.5 Nm Fastening Torque (I/O Connection): M12: 0.5 Nm | Mounting: | $2\ hole\ screw\ mounting.\ Use\ standard\ M4\ x\ 25\ /\ 30\ screws\ with\ toothed\ lock\ washer\ (as\ per\ DIN\ 125)\ and\ self-locking\ nuts.$ |
| Fastening Torque (Bus Connection): M12: 0.5 Nm Fastening Torque (Power Connection): 7/8": 1.5 Nm Fastening Torque (I/O Connection): M12: 0.5 Nm | Fastening Torque (Fixing Screw): | M4: 1 Nm |
| Fastening Torque (Power Connection): 7/8": 1.5 Nm Fastening Torque (I/O Connection): M12: 0.5 Nm | Fastening Torque (Ground Connection (FE)): | M4: 1 Nm |
| Fastening Torque (I/O Connection): M12: 0.5 Nm | Fastening Torque (Bus Connection): | M12: 0.5 Nm |
| * ' ' ' | Fastening Torque (Power Connection): | 7/8": 1.5 Nm |
| Included in Delivery: Attachable Labels: 15x, Sealing Caps: 4x M12 | Fastening Torque (I/O Connection): | M12: 0.5 Nm |
| | Included in Delivery: | Attachable Labels: 15x, Sealing Caps: 4x M12 |

PROFIBUS

| Connection: | M12, 5-poles, B-coded |
|---|---|
| Number of Connections: | 2 |
| Transmission Rate: | 9.6 kbps 12 Mbps |
| Transmission Rate Adjustment: | Automatically with start of the communication |
| Addressing via Rotary Address Switches: | 199 dec |
| Addressing via PROFIBUS: | 1125 dec |
| ID Number: | 09CA hex |

Power Supply

| Connection Module Supply Voltage: 7/8" Power, 5-poles Number of Connections: 2 Current Carrying Capacity of Connector: max. 9 A Module Supply Voltage (Nominal): 24 V DC (SELV/PELV) Module Supply Voltage (Range): 19 V DC to 30 V DC Current Consumption (typ.): 70 mA (at 24 V DC) Reverse Polarity Protection: Yes Status Indicator (System Supply): LED green Diagnostic Indicator: No Connection Sensor Supply Voltage: via Module Supply Connection Current Carrying Capacity of Connector: max. 9 A Sensor Supply Voltage (Nominal): 24 V DC (SELV/PELV) Sensor Supply Voltage (Range): 19 V DC to 30 V DC Reverse Polarity Protection: Yes Status Indicator (Sensor Supply): LED green Diagnostic Indicator: No Connection Actuator Supply Voltage: via Module Supply Connection | 113 | |
|---|------------------------------------|--------------------------|
| Current Carrying Capacity of Connector: max. 9 A Module Supply Voltage (Nominal): 24 V DC (SELV/PELV) Module Supply Voltage (Range): 19 V DC to 30 V DC Current Consumption (typ.): 70 mA (at 24 V DC) Reverse Polarity Protection: Yes Status Indicator (System Supply): LED green Diagnostic Indicator: No Connection Sensor Supply Voltage: via Module Supply Connection Current Carrying Capacity of Connector: max. 9 A Sensor Supply Voltage (Nominal): 24 V DC (SELV/PELV) Sensor Supply Voltage (Range): 19 V DC to 30 V DC Reverse Polarity Protection: Yes Status Indicator (Sensor Supply): LED green | n Module Supply Voltage: 7/8" | " Power, 5-poles |
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| Status Indicator (Sensor Supply): LED green Diagnostic Indicator: No | ipply Voltage (Range): 19 V | V DC to 30 V DC |
| Diagnostic Indicator: No | Polarity Protection: Yes | 5 |
| • | icator (Sensor Supply): LED | D green |
| Connection Actuator Supply Voltage: via Module Supply Connection | Indicator: No | |
| | n Actuator Supply Voltage: via N | Module Supply Connection |
| Current Carrying Capacity of Connector: max. 9 A | arrying Capacity of Connector: max | x. 9 A |
| Actuator Supply Voltage (Nominal): 24 V DC (SELV/PELV) | Supply Voltage (Nominal): 24 V | V DC (SELV/PELV) |

| Actuator Supply Voltage (Range): | 19 V DC to 30 V DC |
|-------------------------------------|--------------------|
| Reverse Polarity Protection: | Yes |
| Status Indicator (Actuator Supply): | LED green |
| Diagnostic Indicator: | No |

Digital Input Channels

| Number of Digital Input Channels: | max. 16, universal |
|-----------------------------------|--|
| Connection: | M12, 5-poles, A-coded |
| Number of Ports: | 8x, X1 to X8 |
| Channel Type: | Type 3 acc. to IEC 61131-2 |
| Input Wiring: | 2-, 3-, 4-wire |
| Nominal Voltage: | 24 V DC via US (module power supply) |
| Nominal Current: | typ. 5 mA |
| Sensor Current Supply: | max. 200 mA per port (at 30°C) |
| Sensor Type: | PNP |
| Input Voltage Range "0" signal: | -3 V DC+5 V DC |
| Input Voltage Range "1" signal: | 11 V DC 30 V DC |
| Input Filter Time: | 1 ms, fixed |
| Protective Circuit: | Electronicaly: Overload protection, short-circuit protection |
| Status Indicator (Inputs): | LED yellow per channel |
| Diagnostic Indicator: | LED red per port |

Digital Output Channels

| Number of Digital Output Channels: | max. 16, universal |
|------------------------------------|--|
| Connection: | M12, 5-poles, A-coded |
| Number of Ports: | 8x, X1 to X8 |
| Channel Type: | p-switching |
| Output Wiring: | 2-, 3-wire |
| Nominal Voltage: | 24 V DC via UL (actuator power supply) |
| Output Current per Channel: | max. 1.6 A |
| Output Current per Module: | max. 9 A |
| Galvanically Isolated: | No |
| Protective Circuit: | Electronicaly: Overload protection, short-circuit protection |
| Overload Behavior: | Auto off and on switching / Manual restart |
| Status Indicator (Outputs): | LED yellow per channel |
| Diagnostic Idicator: | LED red per channel |

Electrical Isolation

| US (System Supply Voltage) / FE: | 500 V DC |
|------------------------------------|----------|
| US / UL (Actuator Supply Voltage): | 500 V DC |
| UL / FE: | 500 V DC |
| Bus connection / FE: | 500 V DC |

EMC Conformance

| EMC Directive: | 2014/30/EU |
|---|--|
| EN 61000-4-2 Electrostatic Discharge (ESD): | Criterion B; 4 kV contact discharge, 8 kV air discharge |
| EN 61000-4-3 Electromagnetic Field: | Criterion A; Field intensity: 10 V/m |
| EN 61000-4-4 Fast Transients (Burst): | Criterion B, 2 kV |
| EN 61000-4-5 Surge Voltage: | Criterion B; DC supply lines: ± 0.5 kV/ ± 0.5 kV (symmetrical/asymmetrical); For I/O ports with cables ≤ 30 m |
| EN 61000-4-6 Conducted immunity: | Criterion A; Test voltage 10 V |
| EN 55022 Radio Interference Properties: | Class A |

Safety & Environmental Compliance

| CE: | Yes |
|-----------------|-----|
| RoHS Compliant: | Yes |

Approvals

| UL: | cULus Listed, UL 508 |
|-----|----------------------|

| UL-File: | E230848 |
|----------|---------|

Notes

| Protection Degree / IP Rating Note: | ** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector. |
|--------------------------------------|--|
| System Power Supply Connection Note: | *do not connect / disconnect under voltage! |
| Update and Revision: | Revision Number: 0.48 Revision Date: 05-24-2023 |

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