



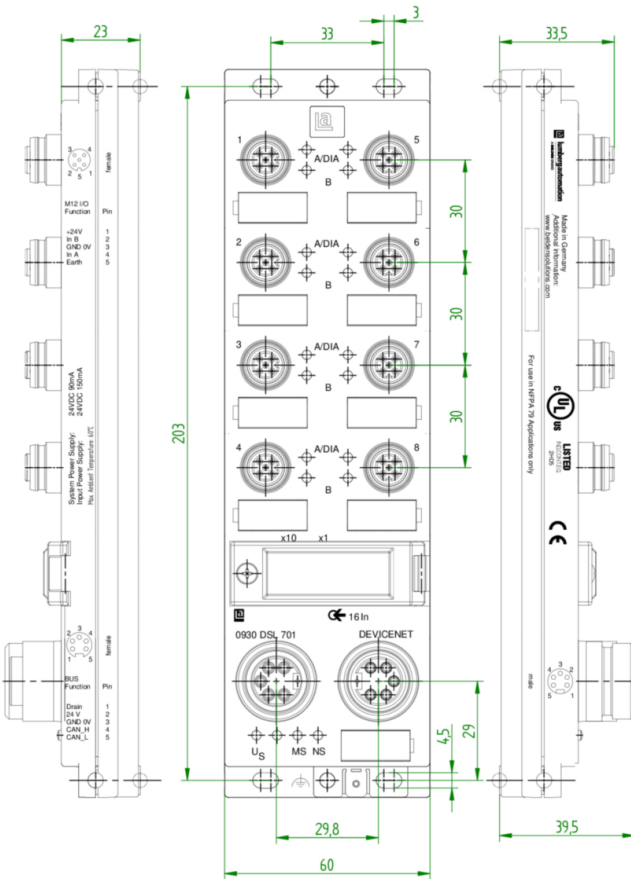
Product: [0930 DSL 701](#)

LiON-M, DeviceNet I/O Device, 16DI (8x M12), 7/8" Power Supply, Plastic, 60 mm

Product Description

LiON-M, I/O Standalone, DeviceNet, industrial plastic housing, 60 mm, IP67, 16 digital input channels, 8 x M12 A-coded I/O connection, 5-poles, 2 x 7/8" bus and system supply connection, 5-poles

Technical Drawing



Technical Specifications

Product Description

| | |
|---------------------|----------------------------------|
| Brand: | Belden |
| Product Family: | I/O Systems: Active - Standalone |
| Product Sub Family: | LiON-M |
| Item Description: | 0930 DSL 701 |
| Part Number: | 75850 |

| | |
|-----------------------------------|-----------------------|
| Device Type: | I/O Module |
| Protocol: | DeviceNet |
| I/O Function: | 16DI |
| Bus Connection: | 7/8", 5-poles |
| Power Connection (System Supply): | 7/8" Power, 4-poles |
| I/O Connection: | M12, 5-poles, A-coded |
| I/O Type: | Digital Input |

General Data

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| Housing Material: | PBT + ASA |
| Housing Color: | Black |
| Protection Degree / IP Rating**: | IP67 |
| Potted: | No |
| Dimensions (W x H x D): | 60 mm x 40 mm x 243 mm |
| Weight: | 390 g |
| Ambient Temperature (Operation)*: | -10 °C to 60 °C |
| Vibration Resistance: | 10 g / 5 -500 Hz |
| Shock Resistance: | 50 g / 11ms |
| Contact Base Material: | M12, A-coded, CuSn, Gold-plated 7/8" CuZn, Gold-plated |
| 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 nuts. |
| 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 |
| Included in Delivery: | Attachable Labels: 15x, Sealing Caps: 4x M12 |

DeviceNet

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|---|-----------------------|
| Connection: | 7/8", 5-poles |
| Number of Connections: | 2 |
| Transmission Rate: | 125 kbps ... 500 kbps |
| Transmission Rate Adjustment: | Automatic |
| Addressing via Rotary Address Switches: | 0...63 dec |
| Addressing via DeviceNet: | 99 dec |
| Product Code: | 38 |

Power Supply

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|---|------------------------------|
| Connection Module Supply Voltage: | 7/8" Power, 4-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 |

Digital Input Channels

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|-----------------------------------|---|
| Number of Digital Input Channels: | max. 16, fixed |
| 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: | Electronically: Overload protection, short-circuit protection |
| Status Indicator (Inputs): | LED yellow per channel |
| Diagnostic Indicator: | LED red per port |

Electrical Isolation

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

EMC Conformance

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| 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

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

Approvals

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| UL: | cULus Listed, UL 508 |
| UL-File: | E230848 |

Notes

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| 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: 0.57 Revision Date: 05-24-2023 |

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