

VL300148

CONNECTION TECHNOLOGY • LOGIC MODULES

Connecting digital signals directly at the machine can contribute to significant cost and effort minimization. A classic application is the linking of different signals directly in the field. Thus, it is possible to avoid long line paths of many individual devices, which significantly reduces the wiring effort and the need for control inputs. All input signals on the logic modules are visualized by integrated LED and are electrically decoupled from each other. In this way, influences from one device to the other are reliably prevented. The outputs of the modules are overload-proof and the upcoming signal is also indicated by an LED. In addition to logical input signal connections such as AND and OR, versions with signal change control are also available. The ipf logic modules are available for DIN rail mounting or as field modules. Therefor and because of the robust housing, which is characterized by a high degree of protection against the penetration of dust and water, our devices can be used in all areas of machines, equipment and tools.



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MECHANICAL DATA

| | |
|-------------------------------|----------|
| Ambient temperature (MAX) | 70 °C |
| Ambient temperature (MIN) | -25 °C |
| Degree of protection (IP) | IP67 |
| Depth | 25.5 mm |
| Expandable | No |
| Front installation possible | No |
| Height | 136.5 mm |
| Housing material | Plastic |
| Rack-mounting possible | No |
| Rail mounting possible | No |
| Wall/direct mounting possible | No |
| Width | 30 mm |

ELECTRICAL DATA

| | |
|--|----|
| ASI protocol supported | No |
| AS-Interface Safety at Work protocol supported | No |
| Base device | No |
| CAN protocol supported | No |
| Data-Highway protocol supported | No |
| DeviceNet protocol supported | No |
| DeviceNet Safety protocol supported | No |
| EtherNet/IP protocol supported | No |
| Expansion device | No |
| Foundation Fieldbus protocol supported | No |
| INTERBUS protocol supported | No |
| INTERBUS-Safety protocol supported | No |
| IO-Link compatible | No |
| IO-Link master | No |

ELECTRICAL DATA

| | |
|---|---------------|
| KNX protocol supported | No |
| Logic | AND |
| LON protocol supported | No |
| Max. output current | 0.2 A |
| MODBUS protocol supported | No |
| No-load current | 15 mA |
| Number of inputs per logic unit | 4 |
| Number of logic units | 1 |
| Number of pins | 12 |
| Number of pins of connections, control side | 12 |
| Number of pins of connections, sensor side | 3 |
| Number of sensor connection positions | 4 |
| Other bus systems are supported | No |
| PROFIBUS protocol supported | No |
| PROFINET CBA protocol supported | No |
| PROFINET IO protocol supported | No |
| PROFIsafe protocol supported | No |
| Radio standard Bluetooth | No |
| Radio standard GPRS | No |
| Radio standard GSM | No |
| Radio standard UMTS | No |
| Radio standard WLAN 802.11 | No |
| Redundancy capability | No |
| SafetyBUS p protocol supported | No |
| SUCONET protocol supported | No |
| Suitable for safety functions | No |
| Supply voltage at DC (MAX) | 30 V |
| Supply voltage at DC (MIN) | 10 V |
| Switching frequency | 2500 Hz |
| TCP/IP protocol supported | No |
| Type of electrical connection, control side | M12-connector |
| Type of electrical connection, sensor side | Connector M8 |
| Voltage type of supply voltage | DC |
| With display | No |
| With LED display | Yes |
| With optical interface | No |
| With relay output | No |

OTHER DATA

| | |
|---------------------------------|---------------------|
| Corresponding equipment (Ex ia) | No |
| Corresponding equipment (Ex ib) | No |
| Features | Signal change logic |
| SERCOS protocol supported | No |
| With timer clock | No |

DIMENSIONAL DRAWING

INSTALLATION



Mounting / Installation may only be carried out by a qualified electrician!

DISPOSAL



SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!

Never use these devices in applications where the safety of a person depends on their functionality.