

FEATURES

- Compact input module for fieldbus systems designed for the connection of 16 on/off sensors, such as cylinder detectors, push-buttons etc.
- Diagnostics and status display of each input indicated by visual indicator.
- Seven status LEDs provide for at-a-glance visualisation of voltage supply, fieldbus status and group diagnostics.
- Round male M12 connectors fitted with threaded metal nut.
- IP 67 rated housing resistant to aggressive agents and vibrations.
- Two BUS connectors and two voltage supply connectors allow for series connection of several modules without the need for T connectors.
- DESINA-compatible inputs.



DESCRIPTION OF MODULE (see following page)

GENERAL

| | |
|----------------------|--------------|
| Ambient temperature | 0°C to +55°C |
| Module insulation | PBT |
| Degree of protection | IP 67 |

COMMUNICATION CHARACTERISTICS

| | | | |
|--|---|-------------------|-----------------|
| Communication protocol | Profibus-DP | Device Net | Can Open |
| Transmission speed | max. 12 MBaud | max. 500 KBaud | max. 1 MBaud |
| Max. bus cable length (depending on transmission speed) | 100 to 1200 m | 100 to 500 m | 40 to 7000 m |
| Transmission line | shielded twisted pair, RS 485 interface | | |














ELECTRICAL CHARACTERISTICS

| | |
|--|--|
| Supply voltage | 24V DC (18 to 30V) |
| Max. current / distributor | 2,5 A |
| Power consumption / distributor alone | 40 mA |
| Digital inputs | |
| ON/OFF sensor supply (PNP or dry contact) | 24 V DC according to EN61131-2, type 1 |
| I max. | 15 mA |

SPECIFICATIONS

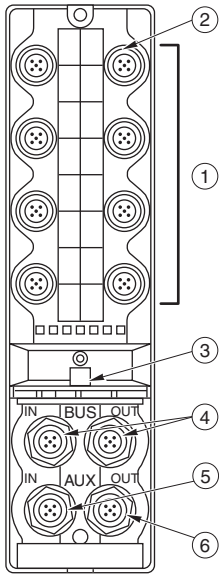
| designation | catalogue number | | |
|---|------------------|-----------------|-----------------|
| | Profibus-DP | Device Net | Can Open |
| compact input module with 16 digital inputs | 88100878 | 88100879 | 88100880 |

ACCESSORIES

| designation | | | catalogue number | | |
|--|--|--|---|---|---|
| set of tightening/loosening tools for M12 connectors | | |  88100884 | | |
| pack of input marking labels (pack of 5) | | |  97802854 | | |
| pack of 10 black male M12 plugs and 2 yellow protective M12 caps | | |  97802869 | | |
| protocols | Profibus-DP | to be wired | T-connector M12-B for Profibus-DP network connection | unshielded, max. 3 MBaud |  88100711 |
| | | | shielded, max. 12 MBaud |  88100712 | |
| | | female M12 connector, B-coded, 5 pins, to be wired |  88100713 | | |
| | | male M12 terminating resistor, B-coded, for Profibus-DP 12 Mbaud |  88100716 | | |
| | | male M12 connector, B-coded, 5 pins, to be wired |  88100714 | | |
| | Device Net Can Open | to be wired | T-connector M12-A for DeviceNet / CanOpen network connection |  88100251 | |
| | | | female M12 connector, A-coded, 5 pins, to be wired |  88100256 | |
| | | male M12 terminating resistor for DeviceNet and CanOpen |  88100899 | | |
| | | male M12 connector, A-coded, 5 pins, to be wired |  88100885 | | |
| | | voltage supply | to be wired | supply In | female M12 connector, A-coded, 5 pins, to be wired |
| supply Out | male M12 connector, A-coded, 5 pins, to be wired | | |  88100885 | |
| with 5 m cable | supply In | | female M12 connector, A-coded, 5 pins, 5 m cable with 5 wires | 88100886 | |
| | supply Out | | male M12 connector, A-coded, 5 pins, 5 m cable with 5 wires | 88100898 | |
| inputs | to be wired | male M12 connector, A-coded, 5 pins, to be wired | 88100885 | | |
| | with 5 m cable | male M12 connector, A-coded, 5 pins, 5 m cable with 5 wires | 88100898 | | |

All leaflets are available on: www.asconumatics.eu

DESCRIPTION OF MODULE

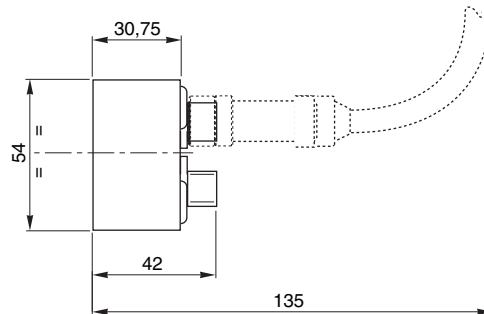
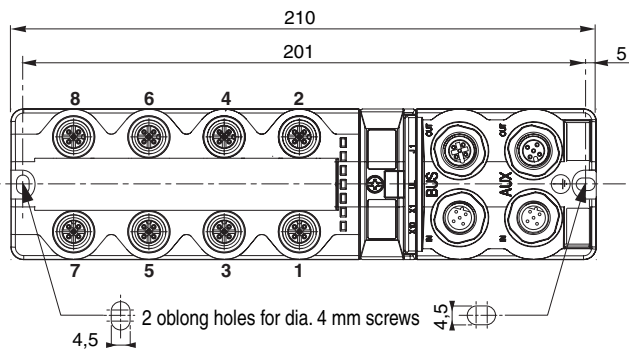


- ① 16 digital inputs / 8 DESINA-compatible inputs for connection with female M12 connectors (2 inputs per connector)
- ② Arrow-like LED indication of input status and diagnostic errors (red LED)
- ③ Lighted configuration space for:
 - Addressing
 - Voltage supply adjustment
- ④ Fieldbus connection (Male M12 "IN" connector, female M12 "OUT" connector)
- ⑤ 24V DC supply (female M12 connector)
- ⑥ 24V DC output for supply of other modules (male M12 connector)

DIMENSIONS (mm), WEIGHT (kg)



| |
|---------------|
| weight |
| 0,35 |



ELECTRICAL CONNECTION

| M12 connectors, 5 pins | | pin | Profibus-DP signal name | Device Net signal name | Can Open signal name |
|-----------------------------|-----------------------|-----|----------------------------|--|-------------------------|
| Bus IN Male | Bus OUT Female | 1 | + 5V DC | Shield | Shield |
| | | 2 | Data A | V Plus | - |
| | | 3 | 0V | CAN-GND | CAN-GND (0V) |
| | | 4 | Data B | CAN-H | CAN-H |
| | | 5 | Shield | CAN-L | CAN-L |
| Aux IN Male | Aux OUT Female | 1 | | + 24 V DC (1) | |
| | | 2 | | + 24 V DC (1) | |
| | | 3 | | 0V | |
| | | 4 | | 0V | |
| | | 5 | | - | |
| | | | signal name | Description | |
| Digital input Female | | 1 | +24V DC | on/off sensor voltage supply | |
| | | 2 | Input 2 | sensor 2 input or diagnostics (DESINA) | |
| | | 3 | 0V | common ground | |
| | | 4 | Input 1 | sensor 1 input | |
| | | 5 | - | - | |

(1) Factory configuration: pins 1 and 2 bridged with jumper J1. Possibility of 2 separate power supplies (pin 1 for supply of inputs 1, 3, 5 and 7; pin 2 for supply of inputs 2, 4, 6 and 8)