

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

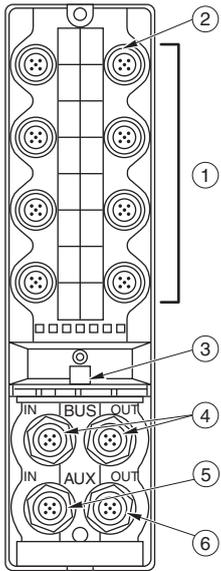
ACCESSORIES

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		



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DESCRIPTION OF MODULE

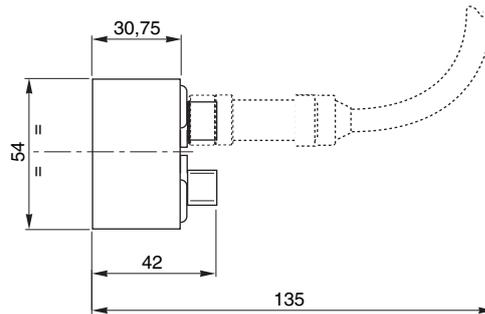
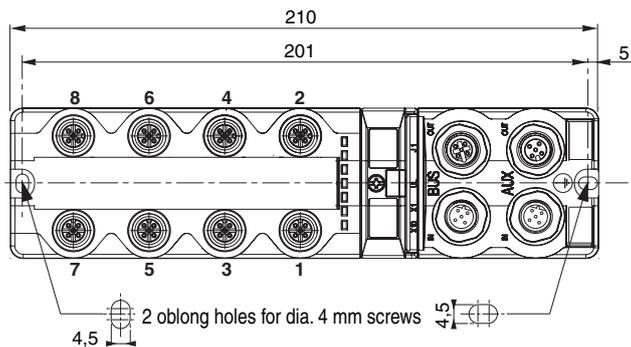


- ① 16 digital inputs / 8 DESINA-compatible inputs for connection with female M12 connectors (2 inputs per connector)
- ② Arrow-like LED indication of input status and diagnostic errors (red LED)
- ③ Lighted configuration space for:
 - Addressing
 - Voltage supply adjustment
- ④ Fieldbus connection (Male 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)