JOUCOMATIC

COMPACT INPUT MODULE

16 digital inputs
Profibus-DP, Device Net or Can Open

Series
881

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		

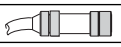
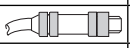
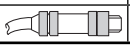
ELECTRICAL CHARACTERISTICS

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

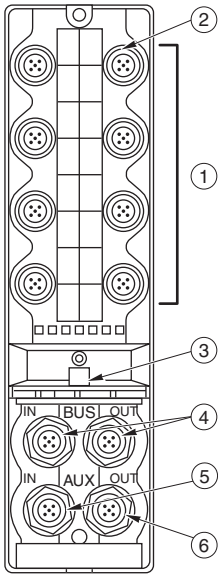
SPECIFICATIONS

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		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		**88100682**
			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**

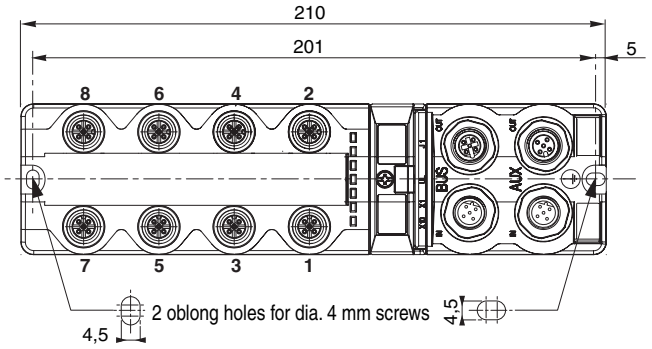
DESCRIPTION OF MODULE

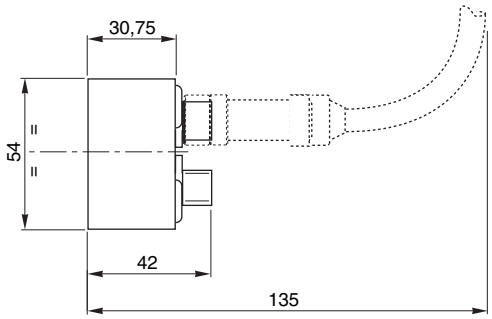


1. 16 digital inputs / 8 DESINA-compatible inputs for connection with female M12 connectors (2 inputs per connector)
2. Arrow-like LED indication of input status and diagnostic errors (red LED)
3. Lighted configuration space for:
   - Addressing
   - Voltage supply adjustment
4. Fieldbus connection (Male 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	Device Net	Can Open
			signal name	signal name	signal name
Bus IN	Bus OUT	1	+ 5V DC	Shield	Shield
		2	Data A	V Plus	-
		3	0V	CAN-GND	CAN-GND (0V)
		4	Data B	CAN-H	CAN-H
Male	Female	5	Shield	CAN-L	CAN-L

Aux IN	Aux OUT	1	+ 24 V DC (1)
		2	+ 24 V DC (1)
		3	0V
		4	0V
Male	Female	5	-

		signal name	Description
Digital input	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
Female	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)