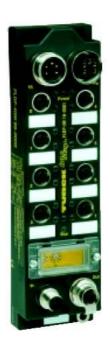
Your fielding connection

Fieldbus Components for Sensors and Actuators



The FLDP-IM16-0001 busstop® station provides a direct connection to PROFIBUS-DP. Up to sixteen 3-wire pnp sensors or 2-wire sensors may be connected to the station.

The station features common short-circuit input monitoring (2 groups of 8 inputs). Two red LEDs provide common short-circuit indications for each group of inputs. The signal status is indicated by a green LED. The ON-LINE/OFF-LINE status of the station is signalled by a green/red "Bus" LED.

The station supports transmission rates of up to 12 Mbd and adjusts automatically to the communication rate determined by the master station. The address of the station is set via two rotary switches located under a protective cover. It can be set from 1 to 99.

The robust station is epoxy-encapsulated and equipped throughout with metal connectors. Connection to PROFIBUS-DP is accomplished with M12 connectors. Power is connected via a 5-pole 7/8" connector.

A green "Power" LED indicates that the station is powered.

To facilitate software configuration of this station within a PROFIBUS system, a 3.5" disk is available. GSD disk: PROFIBUS-DRIVERDISC.

Recommended connection products:

Profibus:

Type: RSSW-RKSW456-2M

Supply:

Type: RKM50-2XOR-RSM50, WKM50-2XOR

Inputs:

Type: FSM4-2WAK3-2/2/P00 or WAK4-5-WAS4/P00,

BS8141-0 (field-wireable connector)

FLDP-IM 16-0001

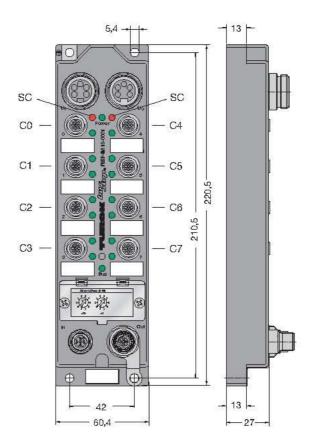
- · Robust PROFIBUS-DP station
- 16 inputs
- Compact flat housing

Applications

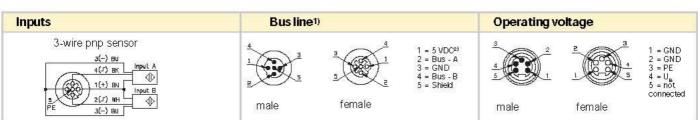
- For conveyor and other field applications
- For connection of sixteen 2/3-wire sensors or mechanical contacts

Special features

- Common short-circuit monitoring of pnp inputs
- Glass fibre reinforced plastic housings with encapsulated electronics and nickel-plated brass connectors meet protection degree IP67
- Transmission rate up to 12 MBd



Wiring diagrams





Input module FLDP-IM 16-0001 16 inputs, DC

FLDP-IM 16-0001 Type ldent-no. 68 253 26

Operating voltage 18...30 VDC

Internal current consumption < 110 mA (from operating voltage)

Settings

1...99 (decimal) via 2 rotary switches, located under protective cover Address

In this example address 15 is set

x10

Input circuits (16) pnp 3-wire sensors/2-wire sensors 18...30 VDC (from operating voltage) Input voltage

< 500 mA per 4 inputs, short-circuit protection Input current

Switching threshold OFF / ON 2 mA / 4 mA 2.5 ms Input time delay Switching frequency < 250 Hz Isolation to bus

LED indications

green / red: normal operation / no communication Bus

Voltage supply green: operating voltage Input status (16) green: input ON

Common short-circuit indication LED SC = (2) red: short-circuit at one input

Connection

5-pole 7/8" connector Operating voltage

Bus line M12 x 1 connector, reverse-keyed

Inputs M12 x 1 connector

I/O data mapping

Abbreviations:

C1P4 = connector 1, pin 4

0 = OFF, 1 = ON

SC = common short-circuit indication of

inputs, I > 500 mA

 U_{R} = operating voltage U_{R} < 18 VDC

Input data byte 1

Input	Bit	7	6	5	4	3	2	1	0
Data	Meaning	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	COP4

Input data byte 2

Input	Bit	7	6	5	4	3	2	1	0
Data	Meaning	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4

Diagnosis data 1 byte

Status	Bit	7	6	5	4	3	2	1	0
Data	Meaning	12	2	2	-	12	Uв		SC

Housing Material

Mounting

Protection degree (IEC 60529/EN 60529)

Shock and vibration test Temperature range

220.5 x 60.4 x 27 mm (I x w x d)

PA6-GF30; nickel-plated brass connectors

via 4 through-holes, Ø 5.4 mm IP67 (NEMA 1, 3, 4, 12, 13)

according to DIN EN 60068-2-6/2-27 0° up to +55 °C (32° up to +131 °F)