



# WI180C-PBS01

Fieldbus modules

INTEGRATION MODULES AND ADAPTERS

**SICK**  
Sensor Intelligence.



### Ordering information

Type	part no.
WI180C-PBS01	6055231

Other models and accessories → [www.sick.com/Fieldbus\\_modules](http://www.sick.com/Fieldbus_modules)



### Detailed technical data

#### Features

<b>Product segment</b>	Integration modules and adapters
<b>Product</b>	Fieldbus modules
<b>Description</b>	Profibus coupler for WLL180T or OD Mini. Features: Profibus DP-V0 slave; transmission rates of 9.6 kbit/s – 12 Mbit/s; D-Sub connection (RS485), 9-pin, Profibus; M8 connection, 4-pin; only output of the switching output of the connected sensors. See operating instructions for additional information and technical details
<b>Enclosure rating</b>	IP50
<b>Dimensions (W x H x L)</b>	39 mm x 38.2 mm x 102.55 mm

#### Classifications

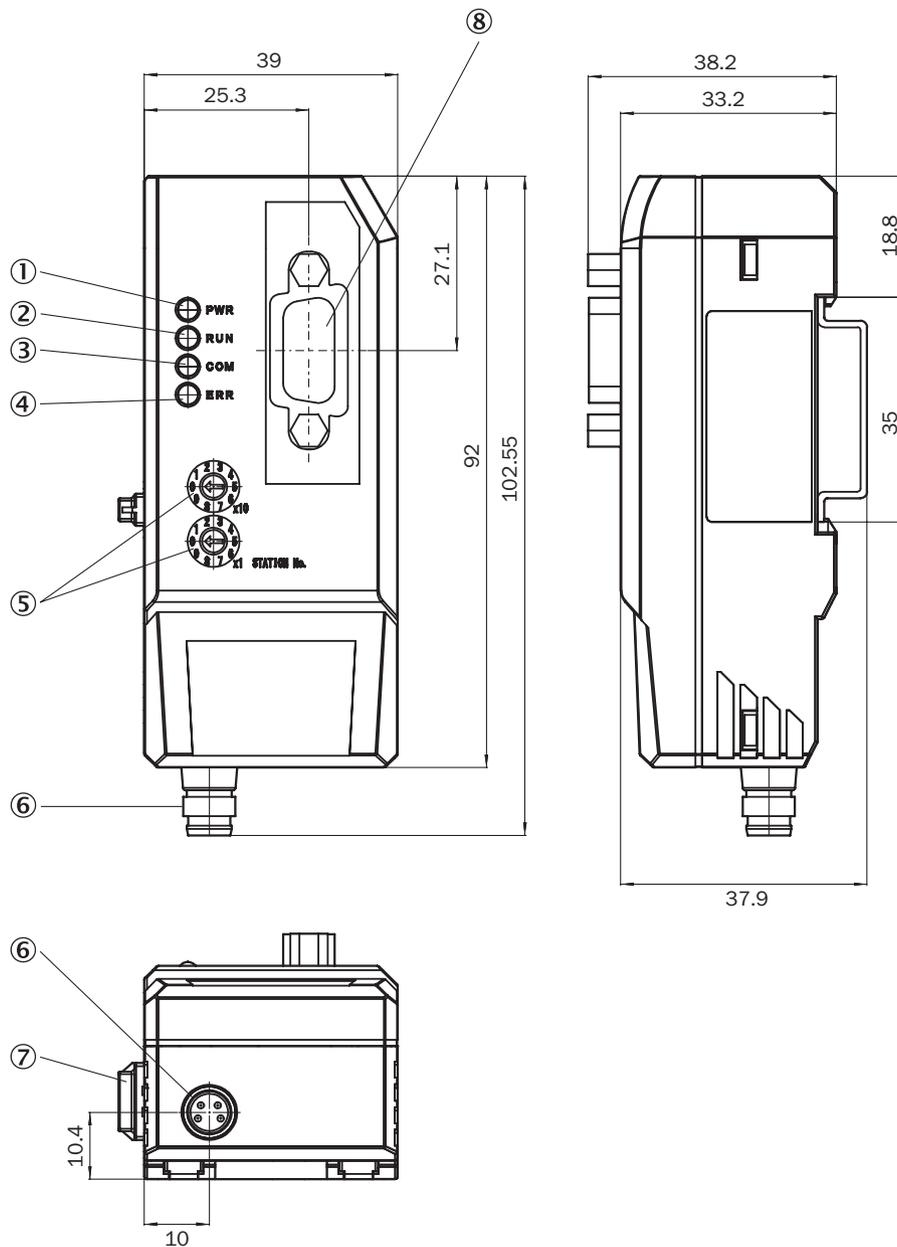
<b>ECLASS 5.0</b>	27242202
<b>ECLASS 5.1.4</b>	27242202
<b>ECLASS 6.0</b>	27242202
<b>ECLASS 6.2</b>	27242202
<b>ECLASS 7.0</b>	27242202
<b>ECLASS 8.0</b>	27242202
<b>ECLASS 8.1</b>	27242202
<b>ECLASS 9.0</b>	27242202
<b>ECLASS 10.0</b>	27242202
<b>ECLASS 11.0</b>	27242202
<b>ECLASS 12.0</b>	27242202
<b>ETIM 5.0</b>	EC001597
<b>ETIM 6.0</b>	EC001597
<b>ETIM 7.0</b>	EC001597

<b>ETIM 8.0</b>	EC001597
<b>UNSPSC 16.0901</b>	32151705

Certificates

<b>EU declaration of conformity</b>	✓
<b>UK declaration of conformity</b>	✓
<b>ACMA declaration of conformity</b>	✓
<b>Moroccan declaration of conformity</b>	✓
<b>China RoHS</b>	✓
<b>cRUus certificate</b>	✓
<b>Information according to Art. 3 of Data Act (Regulation EU 2023/2854)</b>	✓

### Dimensional drawing



Dimensions in mm (inch)

- ① status indicators
- ② Communication indicator
- ③ Sensor communication indicator
- ④ Communication error indicator
- ⑤ switch setting
- ⑥ Power connection: male connector M8, 4-pin
- ⑦ Bus male connector, 5-pin
- ⑧ PROFIBUS connection, D-sub, 9-pin

## Technical data

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	Description	Value
<b>Electrical</b>	Supply voltage	12 – 24 VDC ± 10%
	Power consumption	2 W
	Switch-on delay (WI180C-PB)	500 ms
	Switch-on delay (overall system)	2000 ms
	Profile	PROFIBUS DP-VO
	Maximum number of modules to be connected	16
	Transmission rates in kbit/s	9.6/19.2/45.45/93.75/187.5/500/1.500/3.000/6.000/12.000
	Maximum distance between nodes	1.200 m @ 9.6 – 93.75 kbit/s 1.000 m @ 187.5 kbit/s 400 m @ 500 kbit/s 200 m @ 1.500 kbit/s 100 m @ 3.000 – 12.000 kbit/s
	Process data	2x output, 1x input, 14 bits of received light, error status *
	Asynchronous data	Fieldbus index map
	Transmission interface	RS-485
	LEDs	PWR, RUN, COM, ERR (3x green, 1x red)
	Power supply	Other interfaces
		Male bus connector, 5-pin, internal system bus D-sub, 9-pin, PROFIBUS
<b>EMC</b>	Noise immunity (Length of cable ≤30 m)	in accordance with EN 61000-6-2/ EN 61131-2
	Emission	in accordance with EN 55011, class A
<b>Product safety</b>	Protection class	3
	Short-circuit protection	in accordance with VDE 0160
<b>Mechanical</b>	Protection category	IP50
	Sensitivity to vibrations	IEC 68, 10 – 55 Hz
	Shock resistance	IEC 68, 500 m/s <sup>2</sup> (~50 G)
	Housing material	Polycarbonate
	Dimensions (HxWxD) in mm	39,2 x 102,55 x 39
	Connections	M8, 4-pin, power supply D-sub, 9-pin, PROFIBUS Male bus connector, 5-pin, bus connector
	<b>Environmental parameters</b>	Air humidity (operation/storage)
Temperature range (storage)		-40 – +70 °C
Temperature range (Operation, ≤3 connected devices)		-25 – +55 °C
Temperature range (Operation, ≤8 connected devices)		-25 – +50 °C
	Temperature range (Operation, ≤16 connected devices)	-25 – +45 °C

\* For each connected amplifier. For details see operating instruction 8018416.

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)