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Decentralised passive distributor
PDP67 F 4 code

Decentralised passive distributor for use in rugged industrial environments up to protection type IP67 for connecting PSENcode, PSENslock and PSEN-ini sensors to a Pilz control system.

Unit features

▸ Protection type IP67
▸ M12 female connectors
▸ A maximum of 4 sensors can be connected to each module
▸ Female connectors for series connection
▸ LED indicator for:
  – Supply voltage
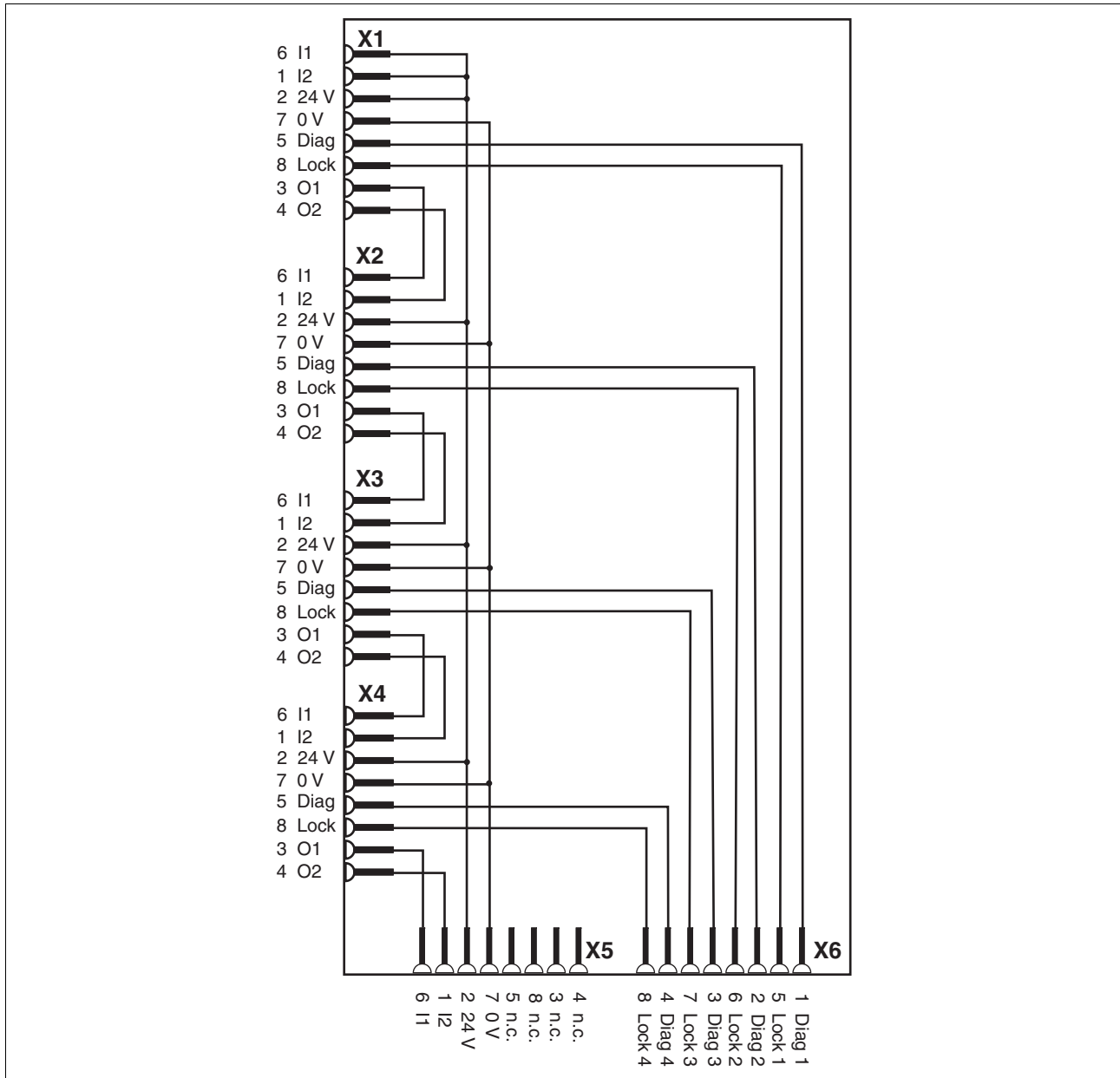 – Status of sensors

Unit description

Decentralised passive distributor for use in rugged industrial environments up to protection type IP67 for connecting PSENcode, PSENslock and PSEN-ini sensors to a Pilz control system.

Approvals

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c(UL)us LISTED	◆

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Block diagram

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Function description

Using the module **PDP67 F 4 code**/ **PDP67 F 4 code VA**, up to four PSEN-code, PSENslock and/or PSENini sensors can be connected in series and connected to an evaluation device. The modules **PDP67 F 4 code**/**PDP67 F 4 code VA** can be connected in series.

Wiring
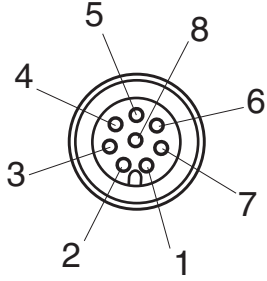
General wiring guidelines

Please note:
▸ Information given in the "Technical details" must be followed.
▸ Where safety-related applications are concerned, it is essential that short circuits and open circuits are unable to cause a hazardous condition within a plant. The way in which this is done will depend on the degree of hazard from the plant, the switching frequency of the sensors and the level of safety of the sensors and actuators.
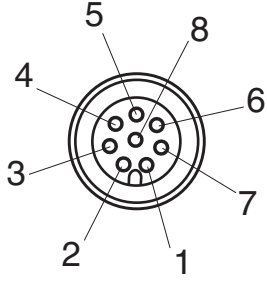▸ You can use prefabricated sensor cables from Pilz for connecting the sensors.

CAUTION!
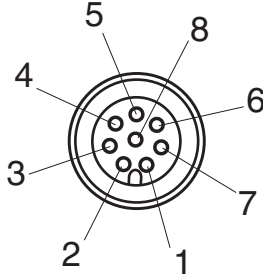In order to guarantee protection type IP67, unused plug-in connectors should be sealed using the blind plugs supplied.

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Assignment of female connectors

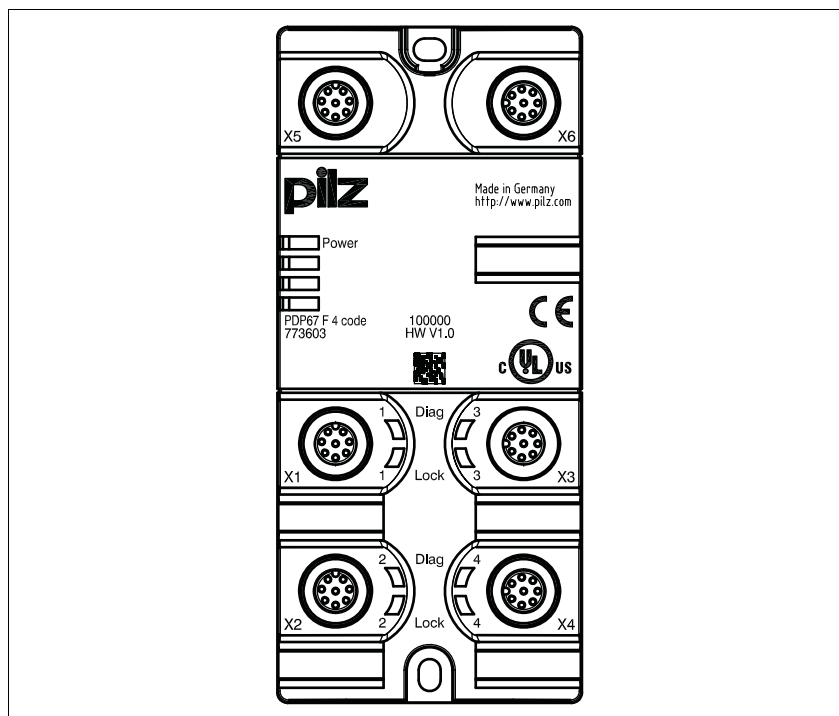| Inputs/outputs X1 to X4	Layout	
8-pin M12 female connectors for connecting the sensors	1: input I2 (S21) 2: 24 V DC (A1) 3: Output O1 (12) 4: Output O2 (22) 5: Signal output (Y32) 6. Input I1 (S11) 7. 0 V (A2) 8. input for control command for magnetic guard locking (S31)	

Inputs/outputs X5	Layout	
8-pin M12 female connector for connecting to the safety inputs of an evaluation device	1: Input I2 2: 24 VDC 3: n.c. 4: n.c. 5: n.c. 6. Input I1 7. 0 V 8. n.c.	

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Inputs/outputs X6	Layout	
8-pin M12 female connector for connecting to the standard inputs and outputs of an evaluation device	1: Signal output X1 2: Signal output X2 3: Signal output X3 4: Signal output X4 5: "Lock_Unlock" X1 (input for control command for magnetic guard locking) 6. "Lock_Unlock" X2 (input for control command for magnetic guard locking) 7. "Lock_Unlock" X3 (input for control command for magnetic guard locking) 8. "Lock_Unlock" X4 (input for control command for magnetic guard locking)	

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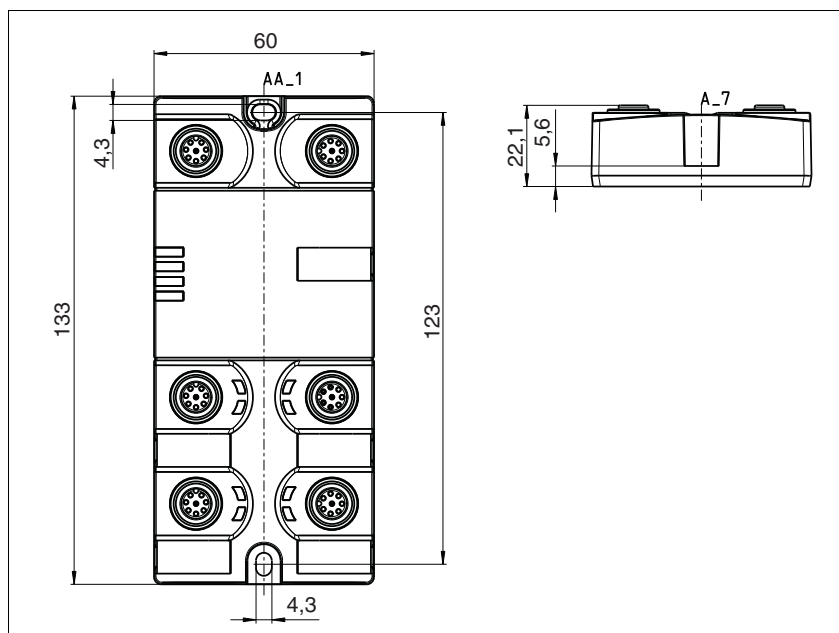
Terminal configuration

Installation

The product must be fastened to a flat mounting surface, so that there is no strain on the housing when the module is screwed down. The mounting distances will depend on which plug-in connectors are used and on the bending radius of the cables.
Unused connectors should be sealed using blind plugs.
To install the system, proceed as follows:

▸ Fit 2 x M4 internal threads on the mounting surface.
▸ Use two fixing screws to attach the product to the mounting plate.

Dimensions

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Decentralised passive distributor
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Notice

This data sheet is only intended for use during configuration. For installation and operation, please refer to the operating instructions supplied with the unit.

Technical details	

Electrical data	
Supply voltage U_B DC	**24 V**
Current load capacity at UB	**2.0 A**
Environmental data	
EMC	**EN 61000-4-2**, **EN 61000-4-3**, **EN 61000-4-4**, **EN 61000-4-5**, **EN 61000-4-6**, **EN 61000-6-2**, **EN 61000-6-4**
Vibration to **EN 60068-2-6**	
Frequency	**10 - 55 Hz**
Amplitude	**0.35 mm**
Climatic suitability	**EN 60068-2-14**, **EN 60068-2-1**, **EN 60068-2-2**
Airgap creepage in accordance with **EN 60664-1**	
Pollution degree	**2**
Ambient temperature	**-40 - 60 °C**
Storage temperature	**-40 - 70 °C**
Shock stress	
	11 ms
	16 ms
Climatic suitability in accordance with **EN 60068-2-78**	**93 % r. h. at 40 °C**
Condensation	**temporary** No. 773603
Mechanical data	
Protection type	
Housing	**IP67**
Terminals	**IP67**
Housing material	
Top	**PBT**
Connection type	**M12** No. 773603
	Stainless steel 1.4305 No. 773613
Dimensions	
Height	**120.0 mm**
Width	**60.0 mm**
Depth	**20.0 mm**
Weight	**211 g**

Order reference	

Type	Features	Order no.
PDP67 F 4 code	Decentralised passive junction	773 603
PDP67 F 4 code VA	Decentralised passive junction, V2A ring nut	773 613
PDP67 Connector cs	Adapter	773 610
PDP67 Connector cs VA	Adapter, V4A union screw	773 612
PSEN cable M12-8sf M12-8sm	2 m	540 340
PSEN cable M12-8sf M12-8sm	5 m	540 341
PSEN cable M12-8sf M12-8sm	10 m	540 342
PSEN cable M12-8sf M12-8sm	20 m	540 343
PSEN cable M12-8sf M12-8sm	30 m	540 344