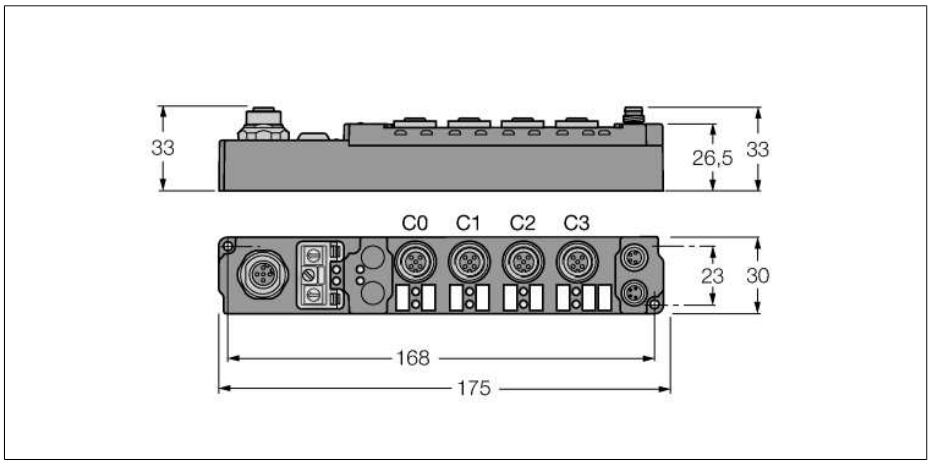
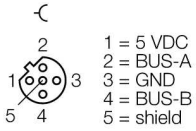
piconet® stand-alone module for PROFIBUS-DP
4 analog inputs for thermoelements
SDPB-40A-0004



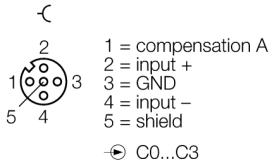
- **4 analogue inputs for thermoelements**
- **Configuration interface**
- **Parametrizable functions**
- **Supported via I/O-ASSISTANT 2**
- **Direct connection to the fieldbus**
- **Fibre-glass reinforced housing**
- **Shock and vibration tested**
- **Encapsulated module electronics**
- **Metal connector**
- **Degree of protection IP67**

Type code	SDPB-40A-0004
Ident no.	6824050
Operating / load voltage	20…29 VDC
Operating current	≤ 110 mA
Fieldbus transmission rate	9.6 kbps … 12 Mbps
Fieldbus addressing	0 to 99
Service interface	parameterisation via I/O-ASSISTANT
Electrical isolation	Fieldbus to operational voltage
Number of channels	4 analogue thermoelement inputs
Electrical isolation	channels to operational voltage
Sensor type	K
Temperature range	Sensor sensor (default type K)
Conversion time	250 ms
Relative measuring error	< +-0.5 % of full scale
Input filter	variable
Sensor supply	from operational voltage
Dimensions (W x L x H)	30x175x26.5mm
Operating temperature	0…+55 °C
Storage temperature	-25 to 85 °C
Vibration test	as per EN 60068-2-6
Shock test	acc. to DIN EN 60068-2-27
Electro-magnetic compatibility	according to EN 61000-6-2/EN 61000-6-4
Protection class	IP67
Approvals	CE, cULus

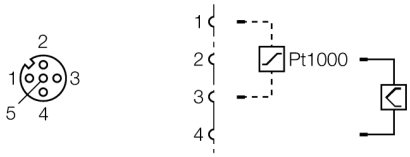
Fieldbus M12 x 1



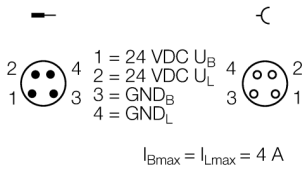
input M12 x 1



Connection - Inputs



Voltage supply M8 x 1



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Hans Turck GmbH & Co.KG ● D-45472 Mülheim an der Ruhr ● Witzlebenstraße 7 ● Tel. 0208 4952-0 ● Fax 0208 4952-264 ● more@turck.com ● www.turck.com

Industrial Automation

Data in process image

Valid for the setting "Motorola format"

SBn: Status byte channel n
CBn: Control byte channel n
Chn D0: channel n, least significant data byte
Chn D1: channel n, most significant data byte

	Address	Input data		Output data	
Pre-conditions	**Word**	**High-Byte**	**Low-Byte**	**High-Byte**	**Low-Byte**
Compact mapping: Starting with Ch0 D1 in "Low-Byte" word 0 all other bytes follow immediately. Only the user data are mapped (greyed in the table). **Complex mapping:** Data are mapped with control and status byte.	**0**	Ch0 D1	SB0	Ch0 D1	CB0
	1	SB1	Ch0 D0	CB1	Ch0 D0
	2	Ch1 D0	Ch1 D1	Ch1 D0	Ch1 D1
	3	Ch2 D1	SB2	Ch2 D1	CB2
	4	SB3	Ch2 D0	CB3	Ch2 D0
	5	Ch3 D0	Ch3 D1	Ch3 D0	Ch3 D1

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