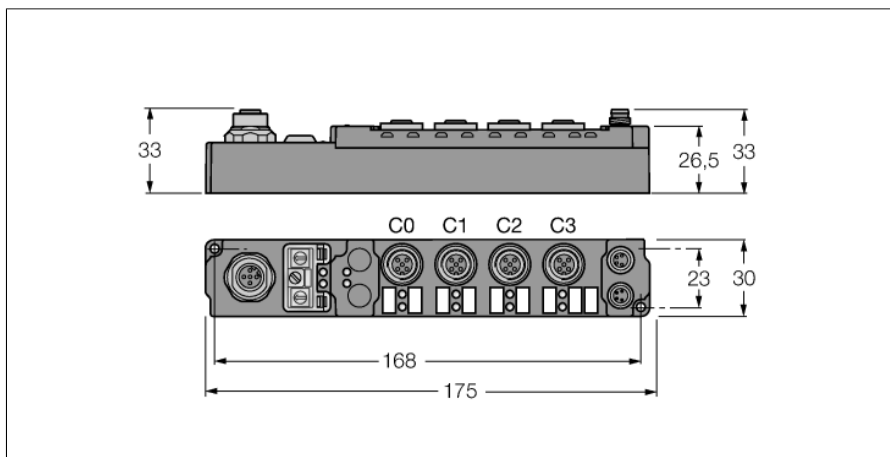
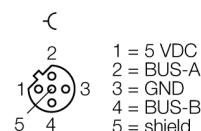


# piconet stand-alone module for PROFIBUS-DP 4 Analog Inputs 0(4)... 20 mA SDPB-40A-0007

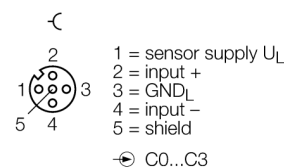


- 4 analog inputs 0(4)...20 mA
- Configuration interface
- Parameterizable functions
- Supported via I/O-ASSISTANT 2
- Direct connection to the fieldbus
- Fibre-glass reinforced housing
- Shock and vibration tested
- Encapsulated module electronics
- Metal connector
- Degree of protection IP67

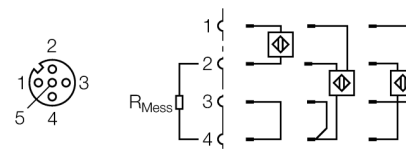
## M12 × 1 Fieldbus



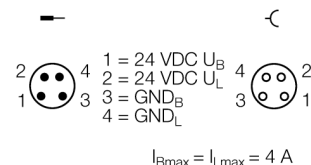
## M12 × 1 Input



## Connection - Inputs



## M8 × 1 Power Supply



|                               |                                    |
|-------------------------------|------------------------------------|
| Type                          | SDPB-40A-0007                      |
| ID                            | 6824052                            |
| Number of channels            | 4                                  |
| Operating / load voltage      | 20...29 VDC                        |
| Operating current             | $\leq 140 mA$                      |
| 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 inputs 20 mA            |
| Input resistance              | 80 $\Omega$                        |
| Electrical isolation          | channels to operational voltage    |
| Common mode voltage           | max. 35 V                          |
| Measuring current             | 0.5 mA                             |
| Conversion time               | 250 ms                             |
| Relative measuring error      | $< \pm 0.3 \%$ of full scale       |
| Input filter                  | variable                           |
| Sensor supply                 | from load voltage                  |
| Dimensions (W x L x H)        | 30 x 175 x 26.5 mm                 |
| Vibration test                | Acc. to EN 60068-2-6               |
| Shock test                    | acc. to DIN EN 60068-2-27          |
| Electromagnetic compatibility | Acc. to EN 61000-6-2/EN 61000-6-4  |
| Protection class              | IP67                               |
| Approvals                     | CE, cULus                          |

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 |
| <b>Compact mapping:</b><br>Starting with Ch0 D1 in "Low-Byte" word 0 all other bytes follow immediately. Only the user data are mapped (greyed in the table).<br><b>Complex mapping:</b><br>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   |