

# Infrastructure components PROFIBUS DP



Indu-Sol GmbH - Specialist in Fieldbus Technology

## Active measuring point PBMX IP67

#### **Function**

For the purpose of physical determination of the signal-to-noise ratio of the PROFIBUS communication feedback-free measuring points are required in every segment of a master system. To get optimal information on the physical transfer quality, the measuring points have to be provided at the two ends of a segment

As PBMX type with the protective system IP 67 it can be used without protective casing in a rough production environment. The PBMX meets not only the requirements of a feedback-free measuring point but also fulfils the requirements and the function respectively of an active bus termination.

The 24V connection ensures the 5 V voltage supply for the terminating resistor via an internal DC/DC transformer.

The diagnostic tools are connected via the free M 12 measuring socket.

#### **Bus connection**

• Power: M12 - Connection D (A-coded, dowel)

• Bus: M12 - Connection A (B-coded, dowel) - "incoming"

M12 - Connection C (B-codiert, socket) - "outgoing"

• PG / Diagnosis: M12 - Connection B (B-coded, socket)

#### **Electrical parameters**

• Baud rate: 9,6 kbps to 12 Mbps

Rated voltage: 24 VDC

• Rated current: Pin 2 / 4 0,25 A

Pin 1 / 3 / 5 2,00 A

• Input voltage: 24 VDC (18 to 30 VDC, pole-proof)

• Output voltage: 5 VDC (100 mA) Pin 1/3

(5 V tapping at sockets B and C)

#### **Ambient conditions**

• Temperature range: -20 °C to +80 °C

Industrial protection: IP67
Degree of pollution: 3

#### Design

Casing: nickel-plated zinc die cast
 Input / Output: EMV electromechanical screw-joint
 Outlet: M12 pluq-and-socket connector

Number of contacts: 5 gilt copperWeight: approx. 210 g

• Fastening: M5 x 1 bolt (thread at the back)

### Ordering details Art. No.

PBMX set 110080005

The PBMX-Set compromises (ready-to-install items):

1 x active measuring adapter PBMX (bus termination)

1 x power cable M12 (female), standard length 3 m

1 x unilaterally converted PROFIBUS cable (female) 2 m

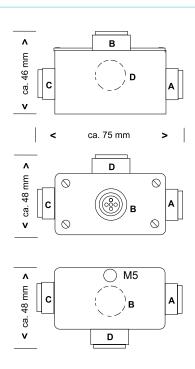
1 x M12 bus temination (male)

1 x M12 blind closure

PBMX single 110080004



**PBMX** 



#### **Engineering drawing**

A	Bus "coming"	( \$ 50 p • 9	1: not used 2: A-Line (green) 3: not used 4: B-Line (red) 5: shield
В	diagnostic and programmer interface  Bus "going"		1: 5 V 2: A-Line (green) 3: 0 V 4: B-Line (red) 5: shield
D	Power (24 V DC)		1: 24 V (brown) 2: not used 3: 0 V (bue) 4: not used 5: not used

Pin assignment