MZR40787

design **3.6 x 2.95 x 19.5mm**

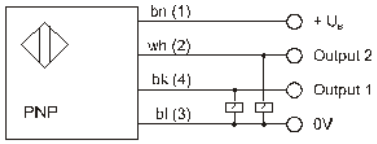
C-groove detection range 0 to 50mm

- ✓ **insertable from above**
- ✓ **plastic housing**
- ✓ **LED-display**
- ✓ **short-circuit and reverse polarity protection**
- ✓ **degree of protection IP67**

wear-free cylinder sensor
2 teachable switching points

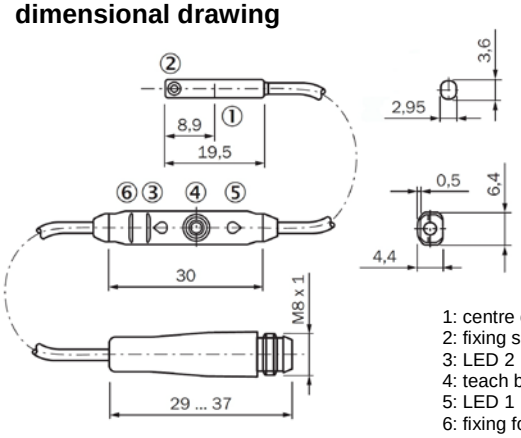
TECHNICAL DATA	
detection range	0 … 50mm
output signal	2 x pnp
operating voltage	12 ... 30V DC
residual ripple	≤ 10%
current consumption (w/o load)	≤ 15mA
output current (max. load)	≤ 100mA (2 x 50mA)
voltage drop (max. load)	≤ 2.2V DC
hysteresis	typ. 4mm
repeatability	≤ 0.1mT (if U_B and T_A constant)
display (signal)	2 x LED yellow
short-circuit protection	+
reverse polarity protection	+
material (housing)	plastic
dimensions	3.6 x 2.95 x 19.5mm
temperature (operating)	-20 ... +75°C
degree of protection (EN 60529)	IP67
shock and vibration resistance	30G, 11ms / 10 … 55Hz, 1mm
EMC resistance	acc. to EN 60947-5-2
connection	M8-cable connector 0.5m, 4-pin, rotatable thread
connection accessories	e.g. **VK200375**

pin configuration



bn=brown, wh=white, bk=black, bl=blue
terminal marking of cable sockets in brackets

dimensional drawing



1: centre of sensor element
2: fixing screw
3: LED 2
4: teach button
5: LED 1
6: fixing for cable straps

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Safety instructions

- Read the instruction manual carefully before operating!
- Mounting, installation and setting may only be carried out by qualified personnel!
- Never use these products in applications where the safety of a person depends on their functionality!

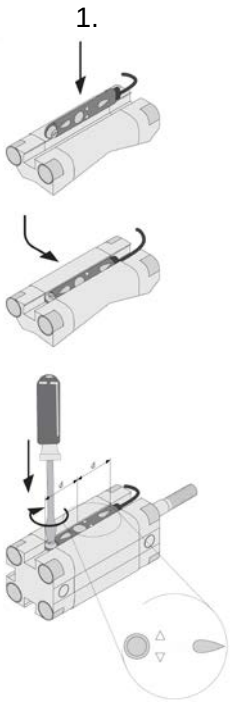
Notes

- Insert only anti-twist pistons on the cylinder!
- Use exclusively the enclosed hexagon socket key or a plastic pen!
- Check periodically the fittings and plug-in connections!

Start up

1. Insert the sensor from above at centre into the C-groove and fix it with the enclosed hexagon socket key. Pay attention on the centre of the sensor ▲▼. The maximum tightening torque is 0,1Nm.

   Then connect the operating voltage (please note the technical data and the connection diagram).



2. Teach-in of the switching points
   - Determine the piston position for switching point 1.
   - Press the teach-button for 3 seconds, LED 1 flashes.
   - Release the teach-button, switching point 1 is stored.
   - LED 2 flashes.
   - Determine the piston position for switching point 2 .
   - Press briefly the teach-button, switching point 2 is stored.

3. Control of the switching points

   Move the piston into the position for switching point 1. LED 1 has to light up. If it doesn't light up, check the operating conditions and teach the switching point again.

   Move the piston into the position for switching point 2. LED 1 has to switch off and LED 2 has to light up.

   If LED 1 doesn't switch off or LED 2 dosn't light up, check the operating conditions and teach the device again.