

MZR40787

C-groove detection range 0 to 50mm

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



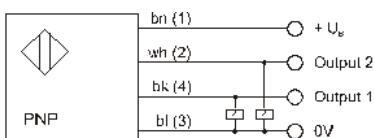
**wear-free cylinder sensor
2 teachable switching points**



TECHNICAL DATA

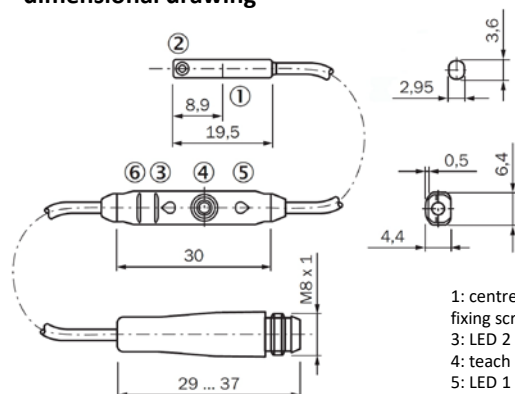
detection range	0 ... 50mm
output signal	2 x pnp
operating voltage	12 ... 30V DC
residual ripple	≤ 10%
current consumption (w/o load)	≤ 15mA
output current (max. load)	≤ 100mA (2 x 50mA)
voltage drop (max. load)	≤ 2.2V DC
hysteresis	typ. 4mm
repeatability	≤ 0.1mT (if U _B and T _A constant)
display (signal)	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

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 doesn't light up, check the operating conditions and teach the device again.

