

## Cylinder switches for cylinders with continuous T-groove

**Materials:** Body: Plastic, threaded part: Brass, screw: Stainless steel

**Connecting line:** PUR cable

**Protection class:** IP 67

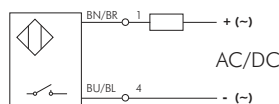
**Temperature range:** -20°C to max. +70°C

**Note:** The proximity switch with light emitting diode is used for the contactless position indicator of cylinders with magnetic pistons. It is mounted by pushing it in the T-groove of the cylinder and locking it using the threaded rod.

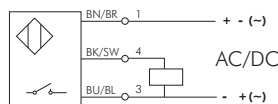
**Suitable:** For cylinder ISO 15552: XL/XLE, compact cylinder: NXE/NXD compact cylinder ISO 21287: NAE/NAD/SFS, rodless cylinder: LZ (Ø 18 mm only with clamp ZSAB2 5), guide cylinder: ZDFM and other cylinders with **continuous** T-groove

- ✓ **Advantages:**
- No mounting material required.
  - Only one switch for many cylinders

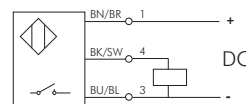
Type	Operating voltage	Switching	Max. switching current/performance	PUR connection line
<b>2-wire reed sensor</b>				
ZSA 12	10-230V AC 10-170V DC	NO contact	150 mA/10 W	3 m, 2 x 0.14 mm <sup>2</sup>
ZSA 12-M8	10-60V AC 10-75V DC	NO contact	150 mA/10 W	0.2 m, 2 x 0.14 mm <sup>2</sup> With cable plug M 8
<b>3-wire reed sensor</b>				
ZSA 13	10-30V AC/DC	NO contact (PNP)	500 mA/10 W	3 m, 3 x 0.14 mm <sup>2</sup>
ZSA 13-M8	10-30V AC/DC	NO contact (PNP)	500 mA/10 W	0.2 m, 3 x 0.14 mm <sup>2</sup> With cable plug M 8
<b>fully electronic sensor (reverse polarity protection)</b>				
ZSA 33	10-30V DC	NO contact (PNP)	130 mA/4 W	3 m, 3 x 0.14 mm <sup>2</sup>
ZSA 33-M8	10-30V DC	NO contact (PNP)	130 mA/4 W	0.2 m, 3 x 0.14 mm <sup>2</sup> With cable plug M 8



ZSA 12/ZSA 12-M8



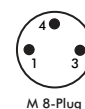
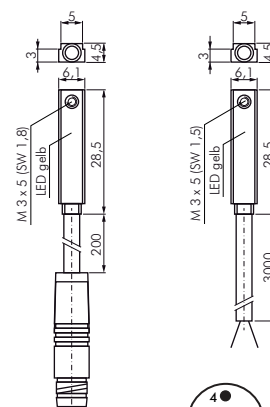
ZSA 13/ZSA 13-M8



ZSA 33/ZSA 33-M8



type ZSA 12



M 8-Plug

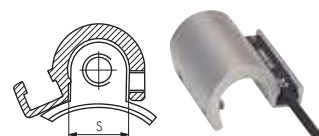
## Fixing clamps for cylinder switches (T-groove)

## for Mickey-Mouse profile (TM/TME)

**Material:** Aluminium anodised

**Suitable:** For mounting cylinder switches type ZSA 12, 12-M8, 13, 13-M8, 33, 33-M8 on profile tube cylinders.

Type	For cylinder Ø	For profile thickness S
ZSAB1 32/40	(32 - 40 mm)	8 - 10 mm
ZSAB1 50/63	(50 - 63 mm)	11 - 13 mm
ZSAB1 80/100	(80 - 100 mm)	14 - 16 mm



## Cylinder switches for round cylinders and Mickey-Mouse profiles (TM/TME)

**Material:** PEI smoke

**Connecting line:** PVC cable

**Protection class:** IP 67

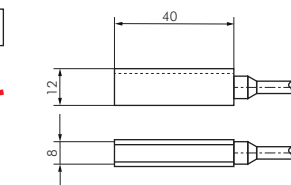
**Temperature range:** -25°C to max. +75°C

**Note:** The proximity switch with light emitting diode is used for the contactless position indicator of cylinders with magnetic pistons. The mounting is done by fixing clamps or tension bands, which must be ordered as accessories (see below).

**Suitable:** For ISO-15552 cylinder model series TM/TME (mounting using fixing clamps), round cylinders model series ZDM/ZDPM (Ø 8 - 25 mm), DSWPVM (Ø 32 - 63 mm) (mounting using tension bands) and other tie rod cylinders (mounting using fixing clamps or tension bands)

Type	Operating voltage	Switching	Max. switching current/performance	Electrical connection
<b>2-wire reed sensor, red LED</b>				
ZSC 12	10-250V AC/DC	NO contact	500 mA/20W	3 m, 2 x 0.25 mm <sup>2</sup>
ZSC 12-M8	10-60V AC/10-75V DC	NO contact	500 mA/20W	Cable plug M 8
<b>Fully electronic sensor (reverse polarity protection/short circuit proof), yellow LED</b>				
ZSC 33	10-30V DC	NO contact (PNP)	200 mA	3 m, 3 x 0.25 mm <sup>2</sup>
ZSC 33-M8	10-30V DC	NO contact (PNP)	200 mA	Cable plug M 8

*Especially good value!*



M 8-Plug

## Tension bands for cylinder switch type ZSC 33/ZSC 12

**Materials:** Tape: AISI 304, clamping block: Aluminium

**Suitable:** For mounting cylinder switches type ZSC 33 and ZSC 12 on round cylinders.

Type	Suitable for cylinder Ø	Clamping range (D)
ZSC1 8/25	8 - 25 mm	10 - 30 mm
ZSC1 32/63	32 - 63 mm	30 - 70 mm
ZSC1 80/100	80 - 100 mm	70 - 110 mm
ZSC1 125/200	125 - 200 mm	110 - 230 mm

