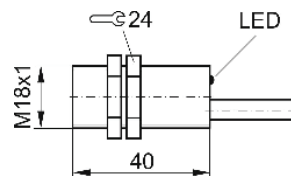


### Characteristics

Actuation with magnets  
Static execution, 0 ... 10 kHz  
DC three-pole, plus-switching, short-circuit-proof  
Open-source output, NC contact  
High switching frequency (up to 10 kHz)  
Speed measurement and detection of approaching and bypassing magnets

### Dimensions

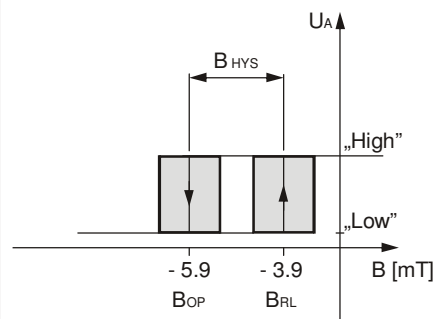


### Technical Data

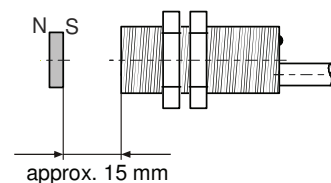
(for  $U_B = 24\text{ V}$ ,  $T_U \approx 23\text{ °C}$ )

Operating voltage $U_B$	10 ... 24 ... 30 VDC
Function of the sensor	NC contact
Switching behaviour	unipolar
Permissible load current	$\leq 200\text{ mA}$
Max. residual current (switch open)	$20\text{ }\mu\text{A}$
Voltage drop ( $I_L = 25\text{ mA}$ )	$\leq 1\text{ V}$
Idle current (non-actuated)	$\leq 25\text{ mA}$
Short-circuit-proof	installed
Protection against polarity reversal	installed
Switching frequency $f$	0 Hz ... 10 kHz
Output „High“	switch closed, if magnetic field is removed
Output „Low“	switch open, if magnetic south pole face is adjacent to sensing face of the sensor
Magnetic hysteresis $B_{HYS}$	2 mT at 25 °C
Ambient temperature range $T_U$	- 25 ... + 80 °C
Type of connection	lead connection, LiFFY - 11Y, 3 x 0.34 mm <sup>2</sup>
Max. lead length	$\leq 150\text{ m}$
Weight	45 g
Housing form	M18
Material of the housing / of the sensing face	brass / plastic material (PBT)
Max. torque	34 Nm
Protection rating according to EN 60529	IP 67

### Switching behaviour



### Application proposal with magnet 13.99-53 (see accessories)



Attention: Actuation takes place with the south pole face.

### Accessories:

ZBM-15wr4-1

ref. no. 13.99-53

### Notes

Keep away metal splinters from the sensing face. Avoid use near strong magnetic fields, which may influence the magnetic fields of the actuating element.

### Certification

Complies with the standard EN 60947-5-2



### Safety Regulations

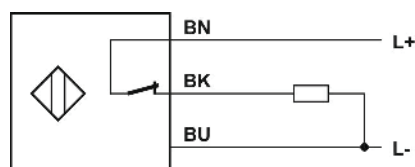
Connection, commissioning and maintenance may only be accomplished by qualified or instructed staff.

We are certified according to DIN EN ISO 9001

Subject to technical changes!

### Wiring

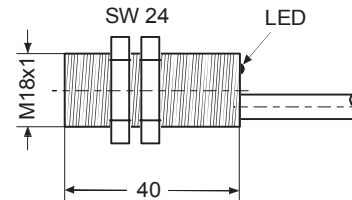
DC voltage, three-pole,  
1 NC contact, PUR lead connection



### Characteristics

Actuation with magnets  
Static version, 0 ... 10 kHz  
DC-three-poles,, minus-switching, short-circuit-proof  
Open-drain output, NC contact  
High switching frequency (up to 10 kHz)  
Speed measurement and detection of approaching and bypassing magnets

### Dimensions

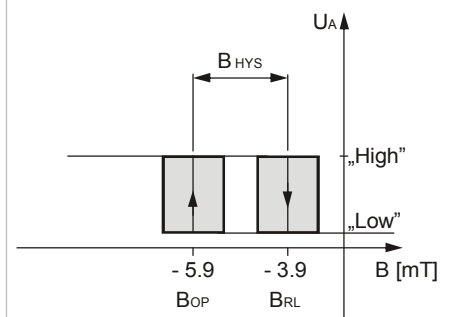


### Technical Data

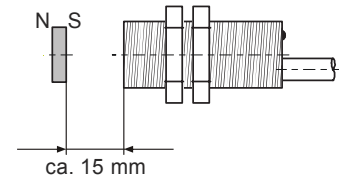
with  $U_B = 24\text{ V}$ ,  $T_U \approx 23\text{ °C}$

Operating voltage $U_B$	10 ... 24 ... 30 VDC
Function of the sensor	NC contact
Switching behaviour	unipolar
Permissible load current	$\leq 200\text{ mA}$
Max. residual current (switch opened)	$20\text{ }\mu\text{A}$
Voltage drop ( $I_L = 25\text{ mA}$ )	$\leq 1\text{ V}$
Idle current (non-actuated)	$25\text{ mA}$
Short-circuit-proof	installed
Protection against polarity reversal	installed
Switching frequency $f$	0 Hz ... 10 kHz
Output „Low“	switch closed, if magnetic field is removed
Output „High“	switch open, if magnetic south pole face is adjacent to sensing face of the sensor
Magnetic hysteresis $B_{HYS}$	$2\text{ mT}$ at $25\text{ °C}$
Ambient temperature range $T_U$	$-25\text{ ... }+80\text{ °C}$
Type of connection	lead connection, LiFFY - 11Y, $3 \times 0.34\text{ mm}^2$
Max. lead length	$\leq 150\text{ m}$
Weight	$45\text{ g}$
Housing form	M18
Material of the housing / of the sensing face	brass / plastic material (PBT)
Max. torque	$34\text{ Nm}$
Degree of protection according to EN 60529	IP 67

### Switching behaviour



### Application behaviour with magnet 13.99-53 (see accessories)



Attention: Actuation takes place with the south pole face.

### Accessories:

ZBM-15wr4-1 ref. no. 13.99-53

### Remarks

Keep away metal splinters from the sensing face. Avoid use near strong magnetic fields, which may influence the magnetic fields of the actuating element.

### Certification

Complies with the standard EN 60947-5-2



### Safety regulations

Connection, start-up and maintenance may only be accomplished by specialists or by instructed personnel.

We are certified according to DIN EN ISO 9001

Subject to technical changes!

### Wiring

DC-voltage, three-poles,  
1 NC contact, PUR lead connection

