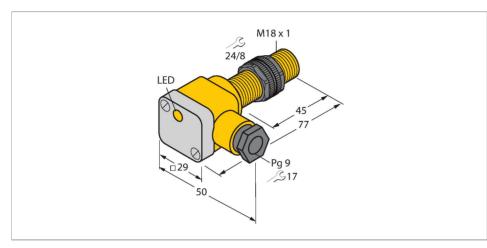


BI5U-P18SK-AP6X **Inductive Sensor**



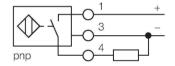
Technical data

eat accuracy $\leq 2\%$ sperature drift $\leq \pm 10$ $\leq \pm 1$ teresis 31 ctrical data rating voltage U_B 10	
red switching distance 5 mm Inting conditions Flush Flush Flush Flush Flush Flush Grant accuracy $\leq 2\%$ Inperature drift $\leq \pm 10$ Interesis $= 31$	١
Inting conditions Flush ured operating distance eat accuracy Experiment $\leq 2\%$ Experiment $\leq \pm 10$ Experimen	1
ured operating distance $≤ (0.8)$ eat accuracy $≤ 2.9$ experature drift $≤ ± 10$ $≤ ± 1$ teresis 31 ctrical data rating voltage U_B 10	
eat accuracy $\leq 2\%$ sperature drift $\leq \pm 10$ $\leq \pm 1$ teresis 31 ctrical data rating voltage U_B 10	1
perature drift $\leq \pm 10$ $\leq \pm 1$ teresis 31 ctrical data rating voltage U_B 10	31 × Sn) mm
$\leq \pm 1$ teresis 31 ctrical data rating voltage $U_{\scriptscriptstyle B}$ 10	6 of full scale
teresis 31 ctrical data rating voltage $U_{\scriptscriptstyle B}$ 10	0 %
ctrical data rating voltage U _B 10	5 %, ≤ -25 °C v ≥ +70 °C
rating voltage U _B 10	5 %
olo II	30 VDC
DIE U _{ss}	% U _{Bmax}
rated operating current I _e ≤ 200) mA
oad current ≤ 25	mA
idual current ≤ 0.1	mA
ation test voltage 0.5 k	V
rt-circuit protection yes/0	Cyclic
age drop at I。 ≤ 1.8	V
break/reverse polarity protection yes/0	Complete
out function 3-wir	e, NO contact, PNP
field stability 300 r	_
field stability 300 r	mT
lation class	

Features

- ■Threaded barrel, M18 x 1
- Plastic, PA12-GF30
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- ■Extended temperature range
- High switching frequency
- ■DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- ■Terminal chamber

Wiring diagram



Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox Factor 1 sensors have significant advantages due to their patented ferrite-coreless multi-coil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

| Polymer | Polyme advantages due to their patented ferritecoreless multi-coil system. They detect all

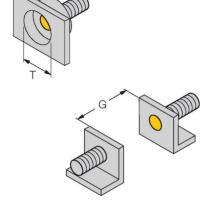


Technical data

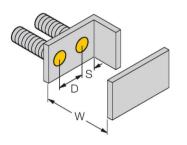
Switching frequency	3 kHz
Mechanical data	
Design	Threaded barrel, M18 x 1
Dimensions	77 mm
Housing material	Plastic, PA12-GF30
Terminal chamber cover material	plastic, Ultem
Terminal chamber housing material	plastic, PA12-GF30
Active area material	Plastic, PA12-GF30
Max. tightening torque of housing nut	2 Nm
Electrical connection	Terminal chamber
Clamping ability	≤ 2.5 mm²
Cable external diameter	4.58 mm
Environmental conditions	
Ambient temperature	-30+85 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED, Yellow
Included in delivery	cable gland; 2x plastic seals

Mounting instructions

Mounting instructions/Description

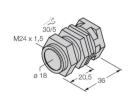


Distance D	2 x B
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Diameter active area B	Ø 18 mm



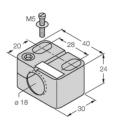
Accessories

QM-18 6945102



Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M24 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.





Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6

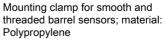
6947214

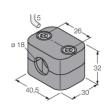
MW18 6945004



Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)

BSS-18





6901320