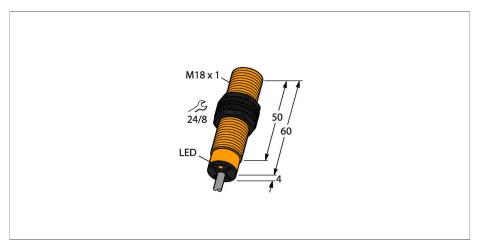


NI12U-S18-AP6X Inductive sensor



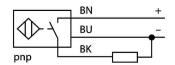
Technical data

Туре	NI12U-S18-AP6X
ID number	1645500
Rated switching distance	12 mm
Mounting conditions	Non-flush, partially embeddable
Secured operating distance	≤ (0,81 x Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
	≤ ± 20 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	315 %
Ambient temperature	-30+85 ℃
Operating voltage	1030 VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 200 mA
No-load current	≤ 20 mA
Residual current	≤ 0.1 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes / Cyclic
Voltage drop at	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, NO contact, PNP
Protection class	
Switching frequency	2 kHz
Design	Threaded barrel, M18 × 1
Dimensions	64 mm
Housing material	Plastic, PA12-GF30
Active area material	Plastic, PA12-GF30
End cap	Plastic, EPTR
	-

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
- Auto-compensation protects against pre-attenuation
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Cable connection

Wiring diagram



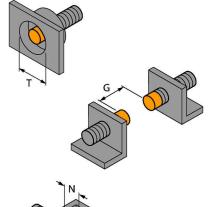
Inductive sensors detect metal objects contactless and wear-free. uprox® Factor 1 sensors have significant advantages due to their patented ferrite-coreless multicoil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

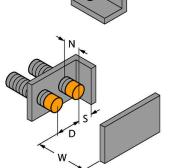


Technical data

n, LifYY, PVC, 2 m
ı, LifYY, PVC, 2 m
nm²
mm)
ms)
acc. to SN 29500 (Ed. 99) 40 °C
W

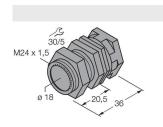
Mounting instructions/Description



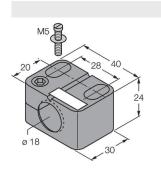


Distance D 3 x B Distance W 3 x Sn Distance T 65 mm Distance S 0.5 x B Distance G 6 x Sn Distance N 2 x Sn Diameter active area B

Mounting accessories



QIVI-10	0943102
Quick-mount bracke	et with dead-stop;
material: Chrome-pl	ated brass Male
thread M24 x 1.5. No	te: The switching
distance of proximit	y switches can be
reduced by the use	of quick-mount
hrackets	

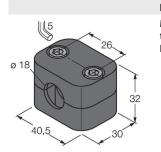


BST-18B 6947214Fixing clamp for threaded barrel devices, with dead-stop; material: PA6



19,7 15,9 19,1 50,8 18, 7,9 18, 7,9 MW-18 6945004

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



BSS-18 6901320

Mounting bracket for smooth and threaded barrel devices; material: Polypropylene