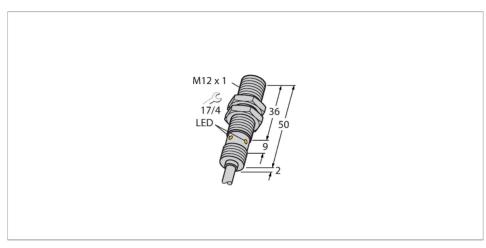


BI4U-EM12WD-AN6X Inductive Sensor – For the Food Industry



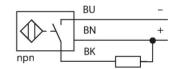
Technical data

_	DIALL ENGOVED ANION
Type	BI4U-EM12WD-AN6X
Ident. no.	1634842
Rated switching distance	4 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
	≤ ± 20 %, ≤ -25 °C , ≥ +70 °C
Hysteresis	315 %
Ambient temperature	-40+100 °C
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 I _e	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, NO contact, NPN
Insulation class	
Switching frequency	2 kHz
Design	Threaded barrel, M12 × 1
Dimensions	52 mm

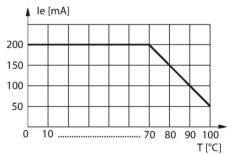
Features

- ■Threaded barrel, M12 x 1
- Stainless steel, 1.4404
- Front cap made of liquid crystal polymer
- Factor 1 for all metals
- Resistant to magnetic fields
- ■For temperatures of -40 °C...+100 °C
- High protection class IP69K for harsh environments
- ■Special double-lip seal
- Protection against all common acidic and alkaline cleaning agents
- Laser engraved label, permanently legible
- ■DC 3-wire, 10...30 VDC
- ■NO contact, NPN output
- Cable connection

Wiring diagram



Functional principle



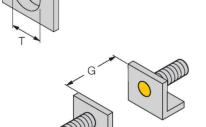


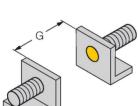
Technical data

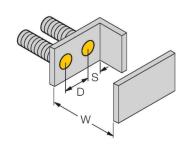
Housing material	Stainless steel, 1.4404 (AISI 316L)	
Active area material	Plastic, LCP	
End cap	Plastic, PP, transparent	
Connector housing	PP	
Admissible pressure on front cap	≤ 20 bar	
Max. tightening torque of housing nut	10 Nm	
Electrical connection	Cable	
Cable quality	Ø 5.2 mm, White, D12YSL9Y-OB, PP, 2 m	
	halogen-free	
Core cross-section	3 x 0.34 mm ²	
Vilantina andistant		
Vibration resistance	55 Hz (1 mm)	
Shock resistance	55 Hz (1 mm) 30 g (11 ms)	
Shock resistance	30 g (11 ms)	
Shock resistance Protection class	30 g (11 ms) IP68 / IP69K 874 years acc. to SN 29500 (Ed. 99) 40	

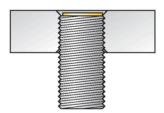
Mounting instructions

Mounting instructions/Description





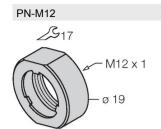




Distance D	2 x B	
Distance W	3 x Sn	_
Distance T	3 x B	_
Distance S	1.5 x B	ervec
Distance G	6 x Sn	rese
Diameter active area B	Ø 12 mm	hanges
All flush mountable upr types are also recesse operation is ensured if by half a turn.		BI4U-EM12WD-AN6X 12/03/2020 03-36 technical changes reserved



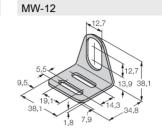
Accessories



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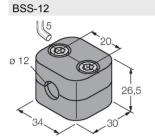
6901321

Impact protection nut for M12x1 threaded barrel devices; material: Stainless steel A2 1.4305 (AISI 303)



6945003

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



Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene