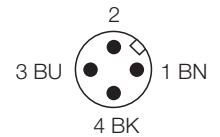
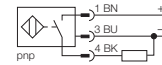
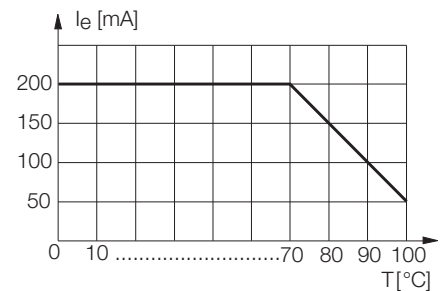


- threaded barrel, M12 x 1
- stainless steel, 1.4404
- Front cap made of liquid crystal polymer Vectra C130
- Factor 1 for all metals
- Magnetic field immune
- For temperatures of -40°C up to +100°C
- High degree of protection IP69K for extreme environmental conditions
- Special double-lip seal
- Protection against all common acid and alkaline cleaning agents
- Laser engraved label, permanently legible
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Male connector, M12 x 1

Wiring diagram

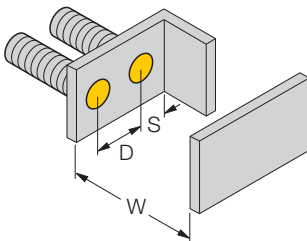
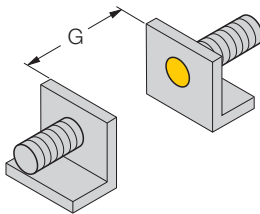
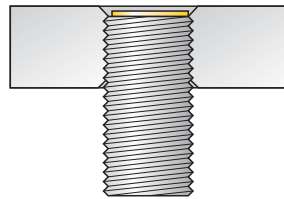
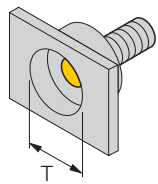


Type	BI4U-EM12WD-AP6X-H1141
Ident-No.	1634812
Rated operating distance Sn	4 mm
Mounting condition	flush
Assured sensing range	≤ (0,81 x Sn) mm
Repeatability	≤ 2 %
Temperature drift	≤ ± 10 %
Hysteresis	≤ ± 20 %, ≤ -25 °C, ≥ +70 °C
Ambient temperature	3... 15 %
	-40...+ 100 °C
Operating voltage	10... 30 VDC
Residual ripple	≤ 10 % U _{SS}
DC rated operational current	≤ 200 mA
No-load current I ₀	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation 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, PNP
Protection class	☐
Switching frequency	≤ 2kHz
Housing	threaded barrel, M12 x 1
Dimensions	52 mm
Housing material	Metal, V4A (1.4404)
Material active face	Plastic, LCP-GF30
Connector housing	plastic, PP
Admissible pressure on front cap	≤ 20 bar
Tightening torque of housing nut	10 Nm
Electrical connection	Connectors, M12 x 1, M12 push-pull compatible
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Protection class	IP68 / IP69K
Switching state	LED yellow



Mounting instructions	minimum distances
Distance D	24 mm
Distance W	12 mm
Distance T	36 mm
Distance S	18 mm
Distance G	24 mm

Diameter of the active area B	Ø 12 mm
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Flush and recessed mounting of all uprox[®]+ threaded barrel sensors. Safe operation is ensured if the sensor is screwed in by half a turn.

Accessories

Type code	Ident-No.	Short text	Dimension drawing
MW-12	6945003	Mounting bracket; material: Stainless steel A2 1.4301 (AISI 304)	
BSS-12	6901321	Fixing clamp; material: Polypropylene	
PN-M12	6905309	Screw cap; material: Stainless steel A2 1.4305 (AISI 303)	