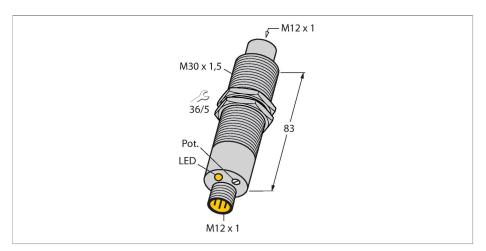


EM30-AP6X2-H1141/S1102 Signal Processor – For Inductive Sensor up to 250 °C





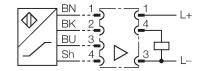
Туре	EM30-AP6X2-H1141/S1102		
ID	1602411		
General data			
	switch point adjustable via potentiometer		
Repeat accuracy	≤ 2 % of full scale		
Temperature drift	≤ ±20 %		
Hysteresis	315 %		
Electrical data			
Operating voltage U _B	1030 VDC		
DC rated operating current I _o	≤ 200 mA		
No-load current	≤ 15 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 break/reverse polarity protection	yes/Complete		
Output function	3-wire, NO contact, PNP		
Switching frequency	0.03 kHz		
Mechanical data			
Design	Threaded barrel, M30 x 1.5		
Dimensions	83 mm		
Housing material	Stainless steel, 1.4571 (AISI 316Ti)		
End cap	Metal, 1.4571 (AISI 316Ti)		
Max. tightening torque of housing nut	40 Nm		
Electrical connection	Connector, M12 × 1		
Environmental conditions			
Ambient temperature	-20+70 °C		



Features

- ■Threaded barrel, M30 x 1.5
- ■Stainless steel, 1.4571
- ■For temperatures up to +70 °C
- Functions only with Ni25-CQ40...and Ni40-CQ80...
- ■DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- ■M12 x 1 male connector

Wiring diagram



Functional principle

The sensors must be operated with an EM30-AP6X2-H1141/S1102 signal processor. The switching distance is set using a potentiometer (continuous) on the signal processor. This is located under a cover screw next to the LED. Where possible, the switching distance must be set at operating temperature. When setting the switching distance at room temperature, the temperature sensitivity of the sensor system must be taken into account. Setting:

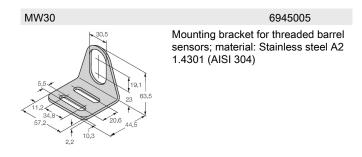
- 1. Place the target (steel, min. 1 mm thick, square, edge length min. 3x rated switching distance) at a safe switching distance in front of the sensor
- 2. Turn the potentiometer counterclockwise until the LED lights up green
- 3. Turn the potentiometer clockwise until the LED lights up yellow
- Perform functional checks in the operating state



Technical data

Vibration resistance	55 Hz (1 mm)		
Shock resistance	30 g (11 ms)		
Protection class	IP67		
MTTF	758 years acc. to SN 29500 (Ed. 99) 40 °C		
Power-on indication	LED, Green		
Switching state	LED, Yellow		

Accessories



Accessories

Dimension drawing	Туре	ID	
M12×1	RKH4-2/TFE	6935482	Connection cable, M12 female connector, straight, 3-pin, stainless steel coupling nut, cable length: 2 m, jacket material: PVC, gray; temperature range: -25+80 °C
M12x1 & 14	RKH4-2/TFG	6934384	Connection cable, M12 female connector, straight, 3-pin, stainless steel coupling nut, cable length: 2 m, jacket material: TPE, gray; temperature range: -40+105 °C