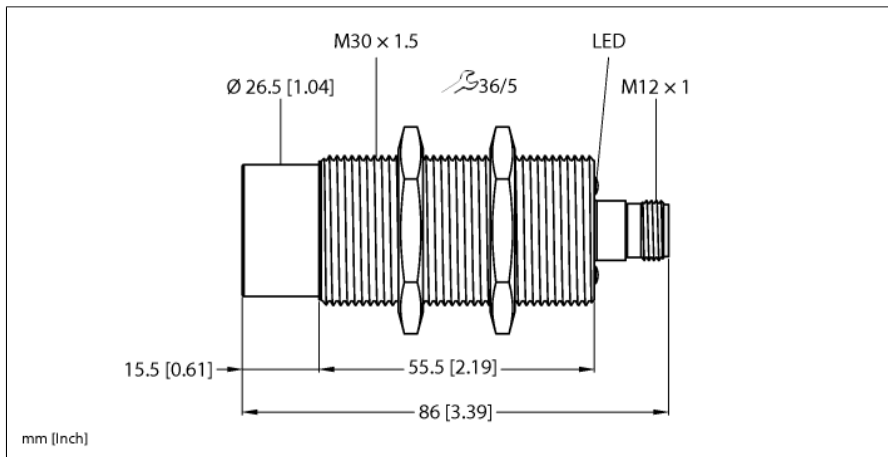


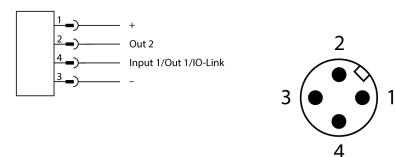
Inductive coupler

Primary Side

NICP-EM30-IOL-H1141



- Threaded barrel, M30 × 1.5
- Stainless steel, 1.4404
- IO-Link COM2 (38.4 kbps)
- IO-Link COM3 (230.4 kbps)
- DC 4-wire, 24 VDC
- 2 × PNP/NPN outputs or 1 × PNP/NPN input
- M12 × 1 male connector
- IO-Link transmission



Functional principle

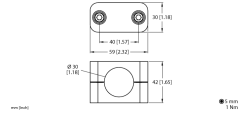
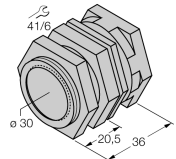
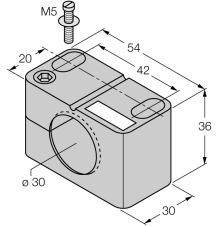
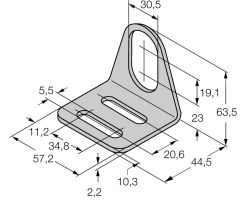
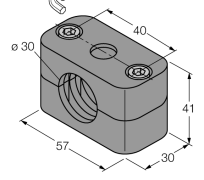
Inductive couplers are used for the noncontact transmission of power and data. With a high-frequency alternating field, power is transmitted at a frequency of 100...148.5 kHz and data at 2.4 GHz. The powered primary side NICP feeds the secondary side NICS via the air interface, and the secondary side transmits the data from sensors etc. back to the primary side.

Type	NICP-EM30-IOL-H1141
ID	100018258
max. transmission distance	7 mm
max. offset	5 mm
Maximum Angular Misalignment	15 °
General data	
Mounting conditions	Non-flush
Electrical data	
DC rated operating current I_n	≤ 1700 mA
Short-circuit protection	yes
Communication protocol	IO-Link
Output function	4-wire, PNP/NPN
Nominal transmission capacity	18 W
IO-Link specification	V 1.1.1
Minimum cycle time	10 ms
Maximum cable length	20 m
Mechanical data	
Design	Threaded barrel, M30 x 1.5
Dimensions	86 mm
Housing material	Stainless steel, 1.4404 (AISI 316L)
Active area material	Plastic, LCP
Max. tightening torque of housing nut	40 Nm
Electrical connection	Connector, M12 × 1
Environmental conditions	
Ambient temperature	-25...+55 °C
	Derating above 45 °C, see manual
Vibration resistance	55 Hz (1 mm)
Shock resistance	100 g (11 ms)
Protection class	IP67
	IP68

Switching state

LED, Yellow

Accessories

Type code	Ident-No.		Dimension drawing
BSM-30	100047196	Mounting clip for inductive couplers, smooth and threaded barrel sensors; material: polypropylene	
QM-30	6945103	Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M36 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.	
BST-30B	6947216	Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6	
MW-30	6945005	Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)	
BSS-30	6901319	Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene	

Function accessories

Type code	Ident-No.		Dimension drawing
NICS-EM30-IOL-HK1141	100018259	Inductive coupler, secondary side	