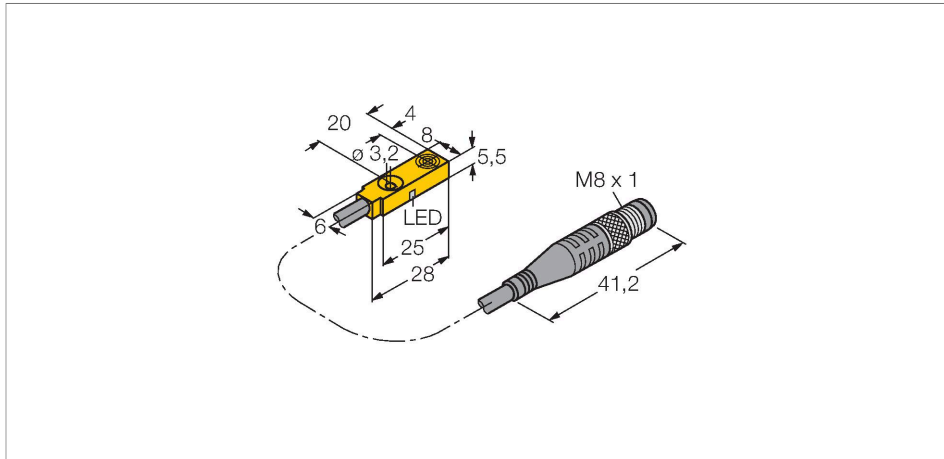


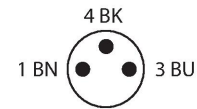
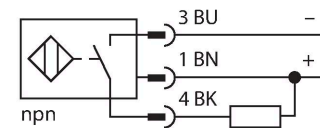
NI 3.5-Q5.5-AN6X-0.2M-PSG 3M

Inductive sensor



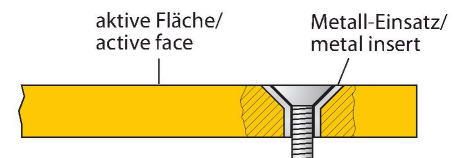
- Rectangular, height 5.5 mm
- Active face on top
- Plastic, PP
- DC 3-wire, 10...30 VDC
- NO contact, NPN output
- Pigtail with male end M8 x 1

Type	NI 3.5-Q5.5-AN6X-0.2M-PSG 3M
Ident. no.	4613690
Rated switching distance	3.5 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0,81 x Sn) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ± 10 %
Hysteresis	3...15 %
Ambient temperature	-25...+70 °C
Operating voltage	10...30 VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 150 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	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, NO contact, NPN
Switching frequency	2 kHz
Design	Rectangular, Q5,5
Dimensions	28 x 8 x 5.5 mm
Housing material	Plastic, PP-GF20
Active area material	PP-GF20
Material coupling nut	metal, CuZn, nickel-plated



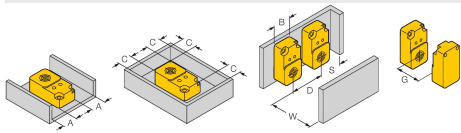
Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this, they use a high-frequency electromagnetic AC field that interacts with the target. Inductive sensors generate this field via an RLC circuit with a ferrite coil.



Tightening torque fixing screw	0.5 Nm
Electrical connection	Cable with connector, M8 × 1
Cable quality	3 mm, Gray, Lif9Y-11Y, PUR, 0.2
	Suited for E-ChainSystems® acc. to manufacturers declaration H1063M
Cable cross section	3 × 0.14 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED, Yellow

Mounting instructions/Description



Distance D	3 × B
Distance W	3 × Sn
Distance S	1.5 × B
Distance G	6 × Sn
Distance N	2 × Sn
Distance A	1 × Sn
Distance C	2 × Sn
Width active area B	8 mm

MW-Q4.7/Q5.5 6945013

Mounting bracket for rectangular Q4.7 or Q5.5; material VA 1.4401

