

IC210176

PRO-series inductive sensor

- / one-piece stainless steel housing
- / extremely resistable
- / short-circuit and reverse polarity protected
- / LED-display
- / M8-connector


 AbN
automation

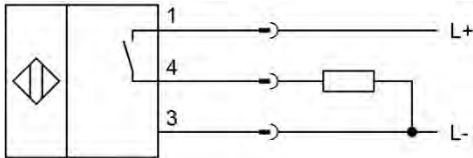
low reduction factors
IO-Link



Technical data

dimensions	20 x 32 x 8mm
nominal switching distance S_n	7mm
mounting	flush (see installation instructions!)
operating voltage U_B	10 ... 30V DC
permissible residual ripple	$\leq 20\%$
switching output	pnp, no
output current (max. load)	$\leq 200\text{mA}$
voltage decay	$\leq 2\text{V}$ at 200mA
current consumption(w/o load)	$\leq 10\text{mA}$
reverse leakage current of the output	$\leq 0.1\text{mA}$
switching frequency	$\leq 180\text{Hz}$
power-on delay time	$\leq 20\text{ms}$
switching hysteresis	$\leq 15\%$
norm trimming plate	21 x 21 x 1mm, FE 360
switching state display	$0 \leq s \leq 0.8s_r$: LED yellow lighting $0.8s_r \leq s \leq s_r$: LED yellow blinking
repeat accuracy	0.3mm (at $U_B = 20 \dots 30\text{V}$, $T_A = 23^\circ\text{C} \pm 5^\circ\text{C}$)
shocks and vibrations	acc. IEC 60947-5-2/7.4
EMC-protection	IEC 60947-5-2 (7.2.3.1): 5kV IEC 61000-4-2: level 4 IEC 61000-4-3: level 3 IEC 61000-4-4: level 3
protection class	IP67
ambient temperature	$-25 \dots +85^\circ\text{C}$
temperature drift of S_r	$\leq 10\%$
material (housing)	stainless steel V4A / 1.4435 / AISI 316L
wall thickness of the active surface	0.7mm
electrical connection	PVC-cable connector M8
connection accessories	e.g. VK200075
mounting accessories	universal holder: AY000116

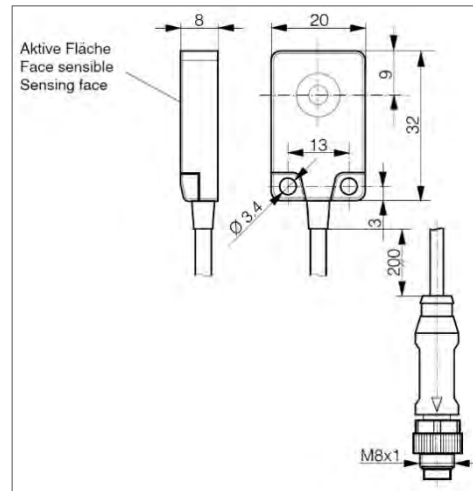
Connection



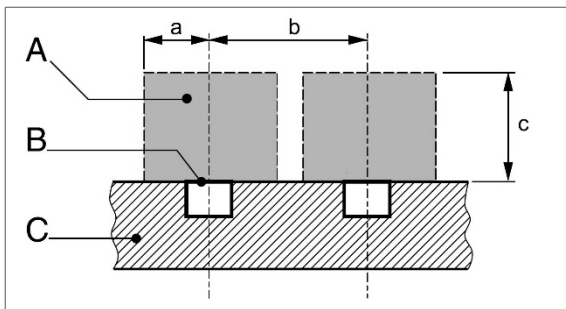
colors: 1 = BN (brown), 3 = BU (blue), 4 = BK (black)

functions: 1 = L+, 3 = L-, 4 = PNP NO

Dimensional drawing

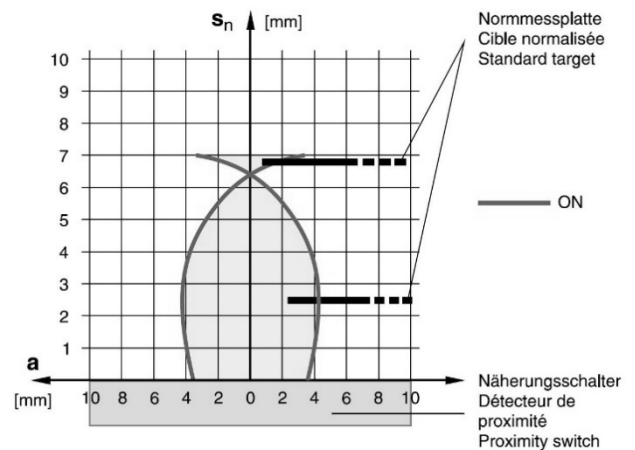


Einbau / Montage / Installation:



Maß a	21mm
Maß b	60mm
Maß c	21mm
A	Metallfreier Raum / espace sans métaux / metal-free zone
B	Aktive Fläche / face sensible / sensing face
C	Träger / support / support

Ansprechkurve* / Courbe de réponse* / Response diagram*:



Reduktionsfaktoren für Messplatte aus* / Coefficients de réduction pour cible en* / Correction factors for target of*:

Stahl FE 360	Kupfer	Aluminium	Messing	Edelstahl 1mm / 2mm dick
Acier FE 360 1,0	civre 0,8	aluminium 1,0	laiton 1,2	acier INOX épaisseur 1mm / 2mm 0,5 / 0,85
Steel FE 360	copper	aluminum	brass	stainless steel 1mm / 2mm thick

Reduktionsfaktoren für bündigen Einbau* / Coefficients de réduction pour montage noyé* / Correction factors for embedded mounting in support of*:

Stahl FE 360	Aluminium	Messing	Edelstahl
Acier FE 360 0.9	aluminium 1.0	laiton 1.2	acier INOX 1.1
Steel FE 360	aluminum	brass	stainless steel

* typical values

SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!

Never use these articles in applications where the safety of a person depends on their functionality.