



Model Number

3RG4612-0NB00-PF

Inductive analog sensor with current output or voltage output

Features

- Analog output 1 mA ... 5 mA/ 0 V ... 5 V
- 0...6 mm quasi flush

Technical Data

General specifications

Output type	Analog current output or analog voltage output
Installation	quasi flush
Output polarity	DC
Measurement range	0 ... 6 mm
Output type	4-wire

Nominal ratings

Installation conditions

A	2 mm
B	6 mm
C	18 mm
F	30 mm

Operating voltage	U_B	10 ... 30 V, residual ripple 20 % U_B
Limit frequency (3dB)		1000 Hz
Reverse polarity protection		yes
Short-circuit protection		yes
Repeat accuracy		0 ... 10 μ m
No-load supply current	I_0	≤ 10 mA
Time delay before availability	t_v	≤ 50 ms

Analog output

Output type	1 ... 5 mA / 0 ... 5 V
Load resistor	Current output A2: $\leq 1000 \Omega$ ($U_B = 10$ V) / $\leq 5000 \Omega$ ($U_B = 30$ V)
Load current	Voltage output A1: ≤ 10 mA

Standard conformity

EMC in accordance with	IEC 60947-5-2: 1kV IEC 61000-4-2: Level 2 IEC 61000-4-3: Level 3 IEC 61000-4-4: Level 2 IEC 60947-5-2/7.4
Shock resistance	IEC 60947-5-2/7.4

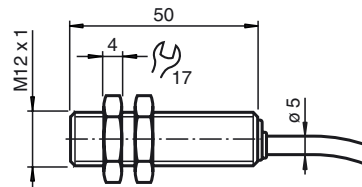
Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Temperature drift	$\leq \pm 5\%$ (0 ... 70 °C) $\leq \pm 10\%$ (-25 ... 0 °C)

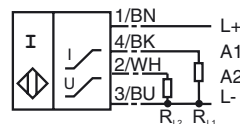
Mechanical specifications

Connection type	cable PUR 4 x 0.25 mm ² /128 x 0.05 mm $\varnothing$, L = 2 m
Housing material	chromium plated brass
Sensing face	PBT
Degree of protection	IP67
Mass	77 g

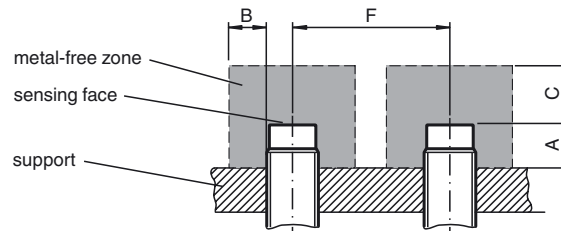
Dimensions



Electrical Connection



Installation Conditions



Characteristic Curves

Output characteristics

