

Model Number

NBB3-F90-80-IU-V1

Features

- Basic series
- 3 mm flush
- Analog output 0 V ... 10 V/4 mA ... 20 mA

Accessories

- V1-G**
Female connector, M12, 4-pin, field attachable
- V1-W-2M-PUR**
Female cordset, M12, 4-pin, PUR cable
- V1-G-2M-PUR**
Female cordset, M12, 4-pin, PUR cable
- V1-W**
Female connector, M12, 4-pin, field attachable

Technical Data

General specifications

Switching element function	analog, current or voltage output
Installation	flush
Output polarity	DC
Object distance	max. 3 mm
Reduction factor r_{Al}	0.45
Reduction factor r_{Cu}	0.4
Reduction factor r_{304}	0.75
Measurement range	0 ... 80 mm

Nominal ratings

Operating voltage	U_B	18 ... 30 V
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Output voltage		0 ... 10 V
Output rated operating current		4 ... 20 mA
Linearity error		± 0.4 mm
Repeat accuracy	R	± 0.2 mm
Resolution		125 μ m
Temperature drift		± 0.5 mm (-25 °C ... 70 °C)
No-load supply current	I_0	≤ 35 mA
Load resistor		voltage output: > 1000 Ω current output: < 400 Ω
Operating voltage indicator		LED green

Standard conformity

EMC in accordance with	IEC / EN 60947-5-2:2004
Standards	IEC / EN 60947-5-2:2004

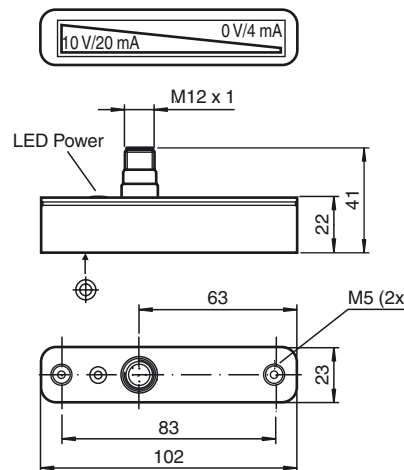
Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
---------------------	--------------------------------

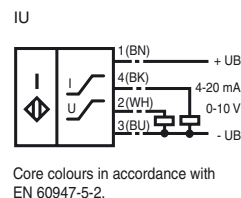
Mechanical specifications

Housing material	ABS
Degree of protection	IP67
Protection class	II
Note	The data relating to accuracy only apply to a distance to the object to be detected of 1 ... 3 mm.

Dimensions



Electrical Connection



dimensions for the target object:

