

**Model Number**

NCB3-F90-80-IE8-V15

**Features**

- Comfort series
- 3 mm flush
- Analog output 4 mA ... 20 mA
- Adjustable switch points

**Technical Data**

**General specifications**

Switching element function	Analog current output with PNP binary NO
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 rated operating current		4 ... 20 mA
Voltage drop	$U_d$	$\leq 3$ V
Linearity error		$\pm 0.4$ mm
Repeat accuracy	R	$\pm 0.2$ mm
Resolution		125 $\mu$ m
Temperature drift		$\pm 0.5$ mm (-25 °C ... 70 °C)
Operating current	$I_L$	0 ... 100 mA
No-load supply current	$I_0$	$\leq 35$ mA
Load resistor		current output: $< 400 \Omega$

Operating voltage indicator	LED green
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**Standard conformity**

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

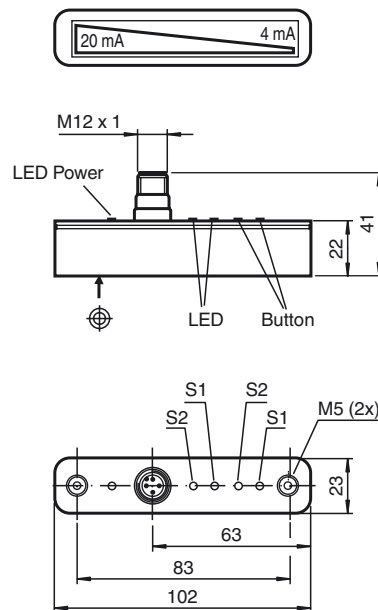
**Ambient conditions**

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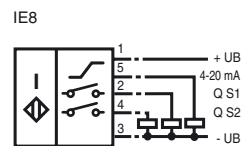
**Mechanical specifications**

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**



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dimensions for the target object:

