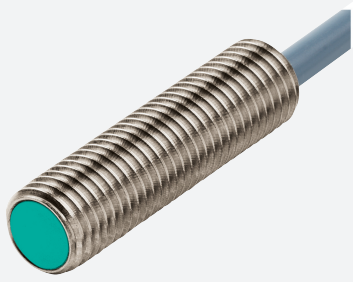


# Inductive sensor

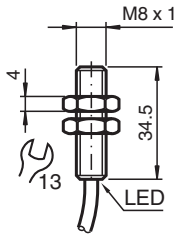
## NBB1,5-8GS30-E2-T



- 1.5 mm flush
- Stainless steel housing
- Extended temperature range



### Dimensions



### Technical Data

#### General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	$s_n$	1.5 mm
Installation		flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 1.215 mm
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 8 mm x 8 mm x 1 mm
Reduction factor $r_{Al}$		0.38
Reduction factor $r_{Cu}$		0.2
Reduction factor $r_{304}$		0.8
Reduction factor $r_{Brass}$		0.45
Output type		3-wire

#### Nominal ratings

Operating voltage	$U_B$	10 ... 30 V
Switching frequency	$f$	0 ... 1500 Hz
Hysteresis	$H$	0.01 ... 0.33 mm
Reverse polarity protection		yes
Short-circuit protection		yes
Overload resistance		yes
Wire breakage protection		yes
Inductive overvoltage protection		yes
Surge suppression		yes

Release date: 2025-01-10 Date of issue: 2025-01-10 Filename: 236474\_eng.pdf

## Technical Data

Ripple		10 %
Voltage drop	$U_d$	$\leq 2.5 \text{ V}$
Repeat accuracy	R	0.04 mm
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	0.01 mA
No-load supply current	$I_0$	$\leq 7 \text{ mA}$
Switching state indicator		LED, yellow
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>		2360 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN IEC 60947-5-2
<b>Approvals and certificates</b>		
UL approval		cULus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated $\leq 36 \text{ V}$
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 100 °C (-13 ... 212 °F)
Storage temperature		-40 ... 100 °C (-40 ... 212 °F)
<b>Mechanical specifications</b>		
Connection type		cable
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP67
Cable		
Wire end ferrules		yes
Cable diameter		4.5 mm $\pm$ 0.15 mm
Bending radius		> 10 x cable diameter
Material		PUR
Color		black
Number of cores		3
Core cross section		0.25 mm <sup>2</sup>
Length	L	2 m
Mass		58 g
Dimensions		
Length		34.5 mm
Diameter		8 mm

## Connection

