

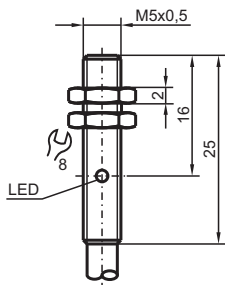
Inductive sensor
NBB0,8-5GM25-E0



- Basic series
- 0.8 mm flush



Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		NPN
Rated operating distance	s _n	0.8 mm
Installation		flush
Output polarity		DC
Assured operating distance	s _a	0 ... 0.648 mm
Reduction factor r _{Al}		0.45
Reduction factor r _{Cu}		0.4
Reduction factor r ₃₀₄		0.85
Nominal ratings		
Operating voltage	U _B	10 ... 30 V
Switching frequency	f	0 ... 3000 Hz

Technical Data

Hysteresis	H	5 ... 20 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 3 \text{ V}$
Operating current	I_L	0 ... 100 mA
Off-state current	I_r	0 ... 0.1 mA typ. 0.1 μA at 25 °C
No-load supply current	I_0	$\leq 12 \text{ mA}$
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		2140 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated $\leq 36 \text{ V}$
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		cablE PVC , 2 m
Core cross-section		0.14 mm ²
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP67

Connection

