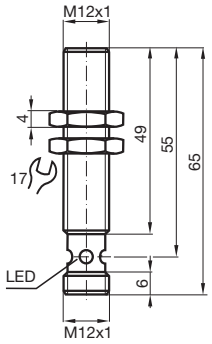
Inductive sensor

NBB4-12GM50-A0-V1



- 4 mm flush
- Increased operating distance

Dimensions



Technical Data

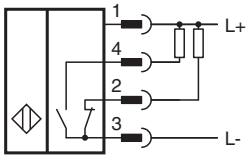
General specifications		
Switching function		complementary
Output type		NPN
Rated operating distance	s_n	4 mm
Installation		flush
Output polarity		DC
Assured operating distance	s_a	0 ... 3.24 mm
Reduction factor r_{Al}		0.39
Reduction factor r_{Cu}		0.3
Reduction factor r_{304}		0.7
Nominal ratings		
Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 1500 Hz

Release date: 2020-03-23 Date of issue: 2020-03-30 Filename: 187649_eng.pdf

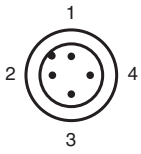
Technical Data

Hysteresis	H	typ. 5%
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 µA at 25 °C
No-load supply current	I_0	≤ 20 mA
Switching state indicator		Multihole-LED, yellow
Functional safety related parameters		
$MTTF_d$		1560 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 ≤36 V
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		Connector M12 x 1 , 4-pin
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67
General information		
Scope of delivery		2 self locking nuts in scope of delivery

Connection



Connection Assignment



Release date: 2020-03-23 Date of issue: 2020-03-30 Filename: 187649_eng.pdf

Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Accessories

	**BF 12**	Mounting flange, 12 mm
	**EXG-12**	Quick mounting bracket with dead stop
	**V1-G-2M-PUR**	Female cordset, M12, 4-pin, PUR cable
	**V1-W-2M-PUR**	Female cordset, M12, 4-pin, PUR cable

Release date: 2020-03-23 Date of issue: 2020-03-30 Filename: 187649_eng.pdf

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

PEPPERL+FUCHS:

NBB0.8-4M25-E0 NBB2-12GM50-A2-V1 NBB4-12GM50-A2-V1 OBR12M-R100-2EP-IO-V31-L UBE800-F77-SE2-V31 134143 CCN15-30GS60-E2-V1 GLV30-8-2500/47/73C NBB2-12GM50-E2 34441 MH4-2057 NBB0.8-5GM25-E2 OBR2500-12GM40-E5 UB800-18GM40-I-V1 24772 NBB1-4GM22-E2 OQT150-R100-2EP-IO-V31-L 114642 OBR5000-18GK40A-E2 S1SD-1AI-1U.1 UB2000-F42-E6-V15 NBB5-18GM50-E2 NBB8-18GM50-E0 OBD450-18GK40A-E2 KLR-C02-2,2-2,0-K70 NBB2-8GM40-E0-V1 NBB5-18GM50-A0 OQT150-R101-2EP-IO-V31 WCS3-MH1 BF18