

Inductive sensor

NCB8-18GM50-Z4-V1

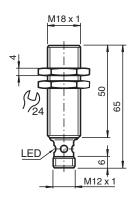
- 8 mm flush
- Increased operating distance
- 2-wire DC







Dimensions

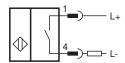


Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		Two-wire
Rated operating distance	s_n	8 mm
Installation		flush
Output polarity		DC
Assured operating distance	s _a	0 6.48 mm (-25 70 °C (-13 158 °F)) 0 6.08 mm (-4025 °C (-4013 °F))
Reduction factor r _{Al}		0.4
Reduction factor r _{Cu}		0.4
Reduction factor r ₃₀₄		0.7
Reduction factor r _{Brass}		0.5
Output type		2-wire
Nominal ratings		
Operating voltage	U_B	3.5 30 V
Switching frequency	f	0 1000 Hz
Reverse polarity protection		reverse polarity-conductive

Technical Data		
Short-circuit protection		pulsing
Voltage drop	U_{d}	≤ 3.5 V
Temperature drift		± 15%
Operating current	IL	2 100 mA
Off-state current	l _r	typ. 0.8 mA
Switching state indicator		LED, yellow
Stability alarm indicator		LED, red
Stability control-switch point		0,8 s _r 0,9 s _r
Functional safety related parameters		
MTTF _d		1370 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Ambient temperature		-40 70 °C (-40 158 °F)
Mechanical specifications		
Connection type		Connector plug
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67
Connector		
Threading		M12 x 1
Number of pins		4
Mass		57 g
Dimensions		
Length		65 mm
Diameter		18 mm

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

Operation

Correlation between output signal/LED-function and stable operating distance s_g /effective operating distance s_r : (s_g typ. 80 % of s_r)

