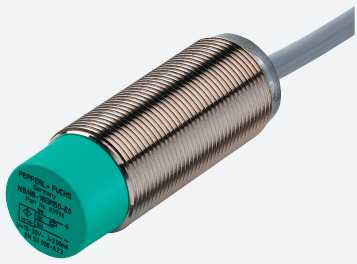


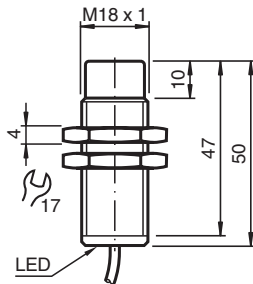
Inductive sensor NJ8-18GM50-A2



■ 8 mm non-flush



Dimensions



Technical Data

General specifications

Switching function		complementary
Output type		PNP
Rated operating distance	s_n	8 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 6.48 mm
Reduction factor r_{Al}		0.45
Reduction factor r_{Cu}		0.4
Reduction factor r_{304}		0.7
Output type		4-wire

Nominal ratings

Operating voltage	U_B	10 ... 60 V
Switching frequency	f	0 ... 500 Hz
Hysteresis	H	typ. 8 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing

Release date: 2025-06-04 Date of issue: 2025-06-04 Filename: 222503_eng.pdf

Technical Data

Voltage drop	U_d	$\leq 3 \text{ V}$
Operating current	I_L	0 ... 400 mA
Off-state current	I_r	0 ... 0.5 mA
No-load supply current	I_0	$\leq 15 \text{ mA}$
Switching state indicator		all direction LED, yellow
Functional safety related parameters		
MTTF _d		1150 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		Certified by China Compulsory Certification (CCC)
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
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		6.2 mm ± 0.2 mm
Bending radius		> 10 x cable diameter
Material		PVC
Color		black
Number of cores		4
Core cross section		0.5 mm ²
Length	L	2 m
Dimensions		
Length		50 mm
Diameter		18 mm

Connection

