

NBB15-U1-Z2

Features

- Sensor head bidirectional and rotatable
- 15 mm flush
- 2 LEDs indicator for 360° visibility

Accessories

MHW 01

Modular mounting bracket

V1-M20-80

Receptacles, M12/M20; plastic version

V1-G

Female connector, M12, 4-pin, field attachable

V1-W

Female connector, M12, 4-pin, field attachable

Technical Data			
General specifications			
Switching element function		DC NO/NC	
Rated operating distance	Sn	15 mm	
Installation		flush	
Output polarity		DC	
Assured operating distance	sa	0 12.15 mm	
Reduction factor r _{Al}		0.3	
Reduction factor r _{Cu}		0.3	
Reduction factor r ₃₀₄		0.7	
Nominal ratings			
Operating voltage	U _B	5 60 V	
Switching frequency	f	0 400 Hz	
Hysteresis	Н	typ. 5 %	
Reverse polarity protection		reverse polarity tolerant	
Short-circuit protection		yes	
Voltage drop	U_d	≤5 V	
Voltage drop at I _L			
Voltage drop $I_L = 100 \text{ mA}$, switching ele-		5 V	
ment on U _d			
Operating current	IL	2 200 mA	
Off-state current	l _r	0 0.5 mA	
Switching state indicator		2 LED, yellow	
Functional safety related parameters			
MTTF _d		1133 a	
Mission Time (T _M)		20 a	
Diagnostic Coverage (DC)		0 %	
Ambient conditions			
Ambient temperature		-25 85 °C (-13 185 °F)	
Mechanical specifications			
Connection type		screw terminals	
Core cross-section		\leq 2.5 mm ²	
Housing material		PA/metal with epoxy powder coating	
Sensing face		PA	
Housing base		plastic	
December of countries		IDOO / IDOO!/	

Compliance with standards and directives

Standard conformity

Degree of protection

Mass

Note

EN 60947-5-2:2007 Standards

IEC 60947-5-2:2007

Tightening torque: 1.8 Nm (housing)
Tightening torque: 1.0 Nm (Screw terminal)

IP68 / IP69K

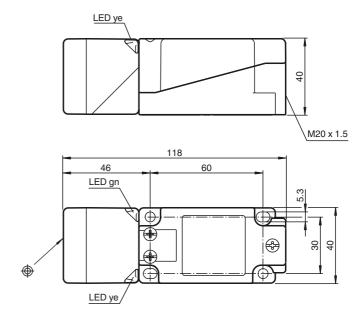
225 g

Approvals and certificates

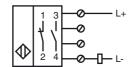
UL approval cULus Listed, General Purpose CSA approval cCSAus Listed, General Purpose

CCC approval Certified by China Compulsory Certification (CCC)

Dimensions



Electrical Connection



2

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

