







Model Number

NBB15-U1-E2-C

Features

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

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		
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Switching element function		PNP NO
Rated operating distance	s _n	15 mm
Installation		flush
Output polarity		DC
Assured operating distance	sa	0 12.15 mm
Reduction factor r _{Al}		0.33
Reduction factor r _{Cu}		0.31
Reduction factor r ₃₀₄		0.74
Reduction factor r _{Brass}		0.41
Nominal ratings		
Operating voltage	U_B	10 30 V
Switching frequency	f	0 4 Hz
Hysteresis	Н	typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤3 V
Operating current	ال	0 200 mA
Off-state current	l _r	0 0.5 mA
No-load supply current	I ₀	≤ 20 mA
Time delay before availability	t _v	300 ms
Constant magnetic field	В	150 mT
Alternating magnetic field	В	150 mT
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
Functional safety related parame	eters	
MTTF _d		1420 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
Degree of protection		iP68 / IP69K
Mass		225 g
Note		Tightening torque: 1.8 Nm (housing)
		Tightening torque: 1.0 Nm (Screw terminal)
Compliance with standards and directives		
Standard conformity		
January Comorning		

Approvals and certificates

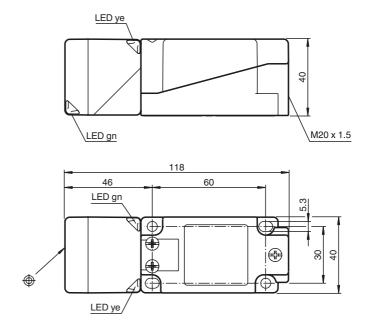
Standards

cULus Listed, General Purpose **UL** approval CSA approval cCSAus Listed, General Purpose CCC approval CCC approval / marking not required for products rated ≤36 V

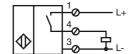
EN 60947-5-2:2007

IEC 60947-5-2:2007

Dimensions



Electrical Connection



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