







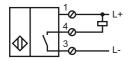
Model Number

NBB15-U1-E0

Features

- · 4 LEDs indicator for 360° visibility
- 15 mm embeddable

Connection



Accessories

MHW 01

Modular mounting bracket

V1-M20-80

Receptacles, M12/M20; plastic version

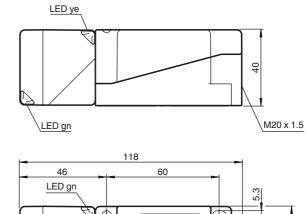
V1-G

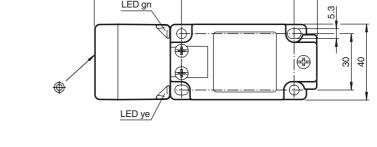
4-pin, M12 female field-attachable connector

V1-W

4-pin, M12 female field-attachable connector

Dimensions





Technical Data

General specifications		
Switching element function		NPN NO
Rated operating distance	s _n	15 mm
Installation		embeddable
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 ₃₀₃		0.74
Reduction factor r _{Brass}		0.41
NI I I AI		

Nominal ratings		
Operating voltage	U _B	10 30 V
Switching frequency	f	0 200 Hz
Hysteresis	Н	typ. 5 %
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2 V
Operating current	ΙL	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
Operating voltage display		LED, green
Indication of the switching state		LED, yellow
Functional safety related parameters		
MTTF _d		1510 a

MTTF _d	1510
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature -25 ... 85 °C (-13 ... 185 °F)

Mechanical specifications

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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
Protection degree	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	,

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	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

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