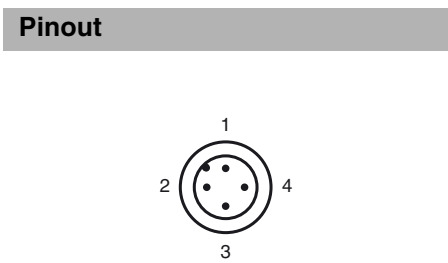
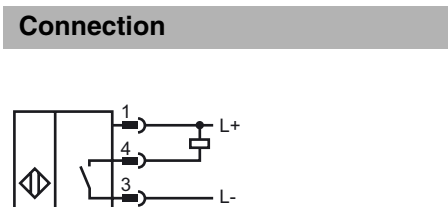




**Model Number**  
NBB15-30GM50-E0-V1

- Features**
- Basic series
  - 15 mm embeddable
  - Increased operating distance

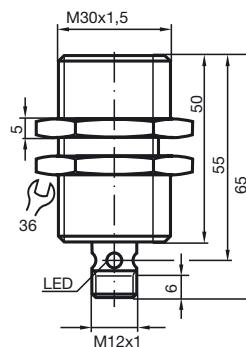


Wire colors in accordance with EN 60947-5-2

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

- Accessories**
- BF 30**  
Mounting flange, 30 mm
  - EXG-30**  
Quick mounting bracket with dead stop
  - V1-G**  
4-pin, M12 female field-attachable connector
  - V1-W**  
4-pin, M12 female field-attachable connector
  - V1-G-2M-PUR**  
Cable socket, M12, 4-pin, PUR cable
  - V1-W-2M-PUR**  
Cable socket, M12, 4-pin, PUR cable

**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	$s_a$	0 ... 12.15 mm
Reduction factor $r_{Al}$		0.3
Reduction factor $r_{Cu}$		0.3
Reduction factor $r_{303}$		0.75
Nominal ratings		
Operating voltage	$U_B$	10 ... 30 V
Switching frequency	$f$	0 ... 200 Hz
Hysteresis	$H$	typ. 5%
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 3$ V
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	0 ... 0.5 mA typ. 0.1 $\mu$ A at 25 °C
No-load supply current	$I_0$	$\leq 15$ mA
Indication of the switching state		Multihole-LED, yellow
Functional safety related parameters		
MTTF <sub>d</sub>		990 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		Device connector M12 x 1 , 4-pin
Housing material		brass, nickel-plated
Sensing face		PBT
Protection degree		IP67
Compliance with standards and directives		
Standard conformity		
Standards		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 $\leq 36$ V do not bear a CCC marking because they do not require approval.

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