



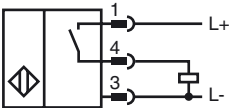
### Model Number

NBB1,5-6,5M20-E2-V3

### Features

- Short version

### Connection



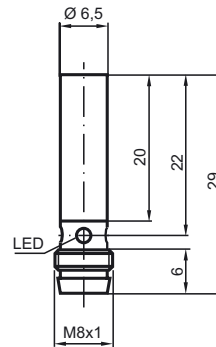
### Pinout



Wire colors in accordance with EN 60947-5-2

1	BN
3	BU
4	BK

### Dimensions



### Technical Data

#### General specifications

Switching element function	PNP	NO
Rated operating distance	$s_n$	1.5 mm
Installation		embeddable
Output polarity		DC
Assured operating distance	$s_a$	0 ... 1.215 mm
Reduction factor $r_{Al}$		0.45
Reduction factor $r_{Cu}$		0.4
Reduction factor $r_{V2A}$		0.85

#### Nominal ratings

Operating voltage	$U_B$	10 ... 30 V
Switching frequency	$f$	0 ... 2000 Hz
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 2$ V
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	0 ... 0.1 mA typ. 0.1 $\mu$ A at 25 °C
No-load supply current	$I_0$	$\leq 10$ mA
Indication of the switching state		LED, yellow

#### Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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#### Mechanical specifications

Connection type	connector (M8 x 1), 3-pin
Housing material	Stainless steel
Sensing face	PBT
Protection degree	IP67

#### Compliance with standards and directives

##### Standard conformity

Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007
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