



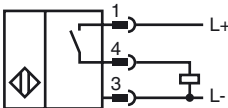
### Model Number

NRN6-6,5S50-E2-V3

### Features

- Reduction factor = 1
- 6 mm not embeddable
- Magnetic field resistant
- Stainless steel housing

### Connection



### Pinout



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
3	BU	(blue)
4	BK	(black)

### Accessories

#### BF 6,5

Mounting flange, 6.5 mm

#### V3-WM

Female connector, M8, 3-pin, field attachable

#### V3-GM

Female connector, M8, 3-pin, field attachable

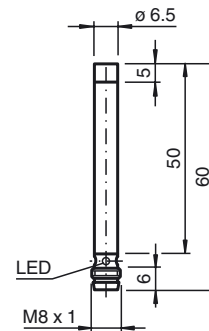
#### V3-WM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

#### V3-GM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

### Dimensions



### Technical Data

#### General specifications

Switching element function	PNP	NO
Rated operating distance	$s_n$	6 mm
Installation	not embeddable	
Output polarity	DC	
Assured operating distance	$s_a$	0 ... 4.86 mm
Reduction factor $r_{Al}$	1	
Reduction factor $r_{Cu}$	1	
Reduction factor $r_{304}$	1	
Reduction factor $r_{317}$	1	

#### Nominal ratings

Operating voltage	$U_B$	10 ... 30 V
Switching frequency	$f$	0 ... 400 Hz
Hysteresis	$H$	type 5 %
Reverse polarity protected	reverse polarity protected	
Short-circuit protection	pulsing	
Voltage drop	$U_d$	$\leq 3$ V
Operating current	$I_L$	0 ... 100 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
Constant magnetic field	$B$	200 mT
Alternating magnetic field	$B$	200 mT
Indication of the switching state	Multihole-LED, yellow	

#### Functional safety related parameters

MTTF <sub>d</sub>	1230 a
Mission Time ( $T_M$ )	20 a
Diagnostic Coverage (DC)	0 %

#### Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-45 ... 85 °C (-49 ... 185 °F)

#### Mechanical specifications

Connection type	Device connector M8 x 1, 3-pin
Housing material	Stainless steel 1.4305 / AISI 303
Sensing face	Crastin (PBTB)
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.