



Model Number

NBN3-F25R-E2-V1

Features

- Direct mounting on standard actuators
- Right active
- Satisfies machinery directive

Technical Data

General specifications

Switching element function		PNP	NO
Rated operating distance	s_n	3 mm	
Installation		flush mountable	
Output polarity		DC	
Assured operating distance	s_a	0 ... 2.43 mm	
Reduction factor r_{Al}		0.5	
Reduction factor r_{Cu}		0.4	
Reduction factor r_{304}		1	
Reduction factor r_{S37}		1.2	

Nominal ratings

Operating voltage	U_B	10 ... 30 V	
Switching frequency	f	0 ... 500 Hz	
Hysteresis	H	typ. 5 %	
Reverse polarity protection		all connections	
Short-circuit protection		pulsing	
Voltage drop	U_d	≤ 3 V	
Operating current	I_L	0 ... 200 mA	
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μ A at 25 °C	
No-load supply current	I_0	≤ 25 mA	
Time delay before availability	t_v	≤ 500 ms	
Operating voltage indicator		LED, green	
Switching state indicator		LED, yellow	

Standard conformity

EMC in accordance with	IEC / EN 60947-5-2:2004
Standards	IEC / EN 60947-5-2:2004

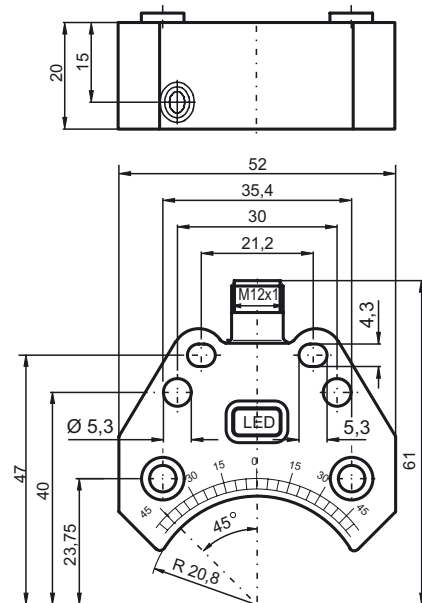
Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

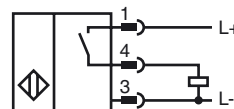
Mechanical specifications

Housing material	PBT
Sensing face	PBT
Degree of protection	IP67
Note	Mounted on mechanical drive

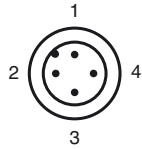
Dimensions



Electrical Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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