



Model Number

SB3,5-G-E2-3D

Features

- Basic series
- 3.5 mm slot width

Technical Data

General specifications

Switching element function	PNP	NO
Slot width	3.5 mm	
Depth of immersion (lateral)	5 ... 7 typ. 6 mm	
Installation		
Output polarity	DC	

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 2000 Hz
Reverse polarity protection	reverse polarity protected	
Short-circuit protection	pulsing	
Voltage drop	U_d	≤ 3 V
Operating current	I_L	0 ... 100 mA
No-load supply current	I_0	≤ 15 mA
Switching state indicator	LED, yellow	

Ambient conditions

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

Connection type	flexible leads PVC , 135 mm
Core cross-section	0.14 mm ²
Housing material	PBT
Degree of protection	IP67

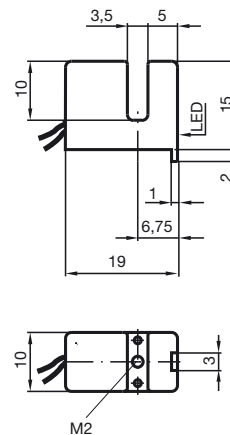
General information

Use in the hazardous area	see instruction manuals
Category	3D

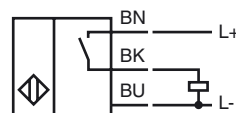
Compliance with standards and directives

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

Dimensions



Electrical Connection



ATEX 3D

Instruction	Manual electrical apparatus for hazardous areas
Device category 3D CE marking	for use in hazardous areas with non-conducting combustible dust CE
ATEX marking Directive conformity Standards	II 3D IP67 T 100 °C (212 °F) X 94/9/EG EN 50281-1-1 Protection via housing Use is restricted to the following stated conditions
General	The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. The data stated in the data sheet are restricted by this operating instruction! The special conditions must be adhered to!
Installation, Commissioning	Laws and/or regulations and standards governing the use or intended usage goal must be observed.
Maintenance	No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.
Specific conditions	
Maximum operating current I_L	The maximum permissible load current must be restricted to the values given in the following list. High load currents and load short-circuits are not permitted.
Maximum operating voltage U_{Bmax}	The maximum permissible operating voltage U_{Bmax} must be restricted to the values given in the following list. Tolerances are not permitted.
Maximum heating (Temperature rise)	dependant of the load current I_L and the max. operating voltage U_{Bmax} . Information can be taken from the following list. The maximum surface temperature at maximum ambient temperature is given in the Ex identification of the apparatus.
at $U_{Bmax}=30$ V, $I_L=100$ mA	30 K
at $U_{Bmax}=30$ V, $I_L=50$ mA	26 K
at $U_{Bmax}=30$ V, $I_L=25$ mA	24 K
Protection from mechanical danger	The sensor must not be mechanically damaged.
Protection of the connection cable	The connection cable must be prevented from being subjected to tension and torsional loading.