



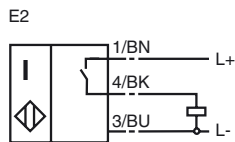
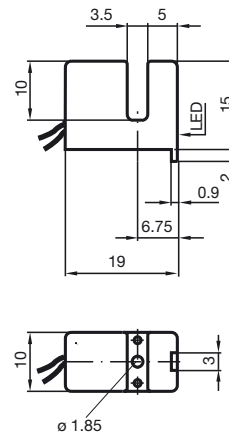
CE

Model Number

SB3,5-E2-3D BLAU

Features

- Basic series
- 3.5 mm slot width

Connection**Dimensions****Technical Data****General specifications**

Switching element function	PNP Make function
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 ... 3000 Hz
Hysteresis	H	0.21 ... 0.4 mm
Reverse polarity protection		protected against reverse polarity
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	I_L	0 ... 100 mA
No-load supply current	I_0	≤ 7 mA
Indication of the switching state		LED, yellow

Standard conformity

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

Ambient temperature	-25 ... 70 °C (248 ... 343 K)
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Mechanical specifications

Connection type	0.5 m, flexible lead LIY
Core cross-section	0.14 mm ²
Housing material	PBT
Protection degree	IP67

General information

Use in the hazardous area	see instruction manuals
Category	3D

ATEX 3D

Instruction	Manual electrical apparatus for hazardous areas
Device category 3D	for use in hazardous areas with non-conducting combustible dust
Directive conformity	94/9/EG
Standard conformity	EN 50281-1-1 Protection via housing Use is restricted to the following stated conditions
CE symbol	
Ex-identification	 II 3D IP67 T 100 °C X
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.
[Fett]Special 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 °C
at $U_{Bmax}=30$ V, $I_L=50$ mA	26 °C
at $U_{Bmax}=30$ V, $I_L=25$ mA	24 °C
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.