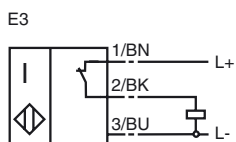


<b>General specifications</b>	
Switching element function	PNP Break function
Rated operating distance $s_n$	0.8 mm
Installation	embeddable
Assured operating distance $s_a$	0 ... 0.648 mm
Reduction factor $r_{AI}$	0.45
Reduction factor $r_{Cu}$	0.4
Reduction factor $r_{V2A}$	0.85
<b>Nominal ratings</b>	
Operating voltage $U_B$	10 ... 30 V
Switching frequency $f$	0 ... 3000 Hz
Reverse polarity protection	protected against reverse polarity
Short-circuit protection	pulsing
Voltage drop $U_d$	$\leq 3$ V
Operating current $I_L$	0 ... 100 mA
No-load supply current $I_0$	$\leq 15$ mA
Indication of the switching state	LED, yellow
<b>Standard conformity</b>	
Standards	IEC / EN 60947-5-2:2004
<b>Ambient conditions</b>	
Ambient temperature	-25 ... 70 °C (248 ... 343 K)
<b>Mechanical specifications</b>	
Connection type	2 m, PVC cable
Core cross-section	0.14 mm <sup>2</sup>
Housing material	Stainless steel
Sensing face	PBT
Protection degree	IP67
<b>General information</b>	
Use in the hazardous area	see instruction manuals
Category	3D

### Connection type:



## ATEX 3D

Instruction

### Device category 3D

Directive conformity

Standard conformity

CE symbol

Ex-identification

General

Installation, Commissioning

Maintenance

[Fett]Special conditions

Maximum operating current  $I_L$

Maximum operating voltage  $U_{Bmax}$

Maximum heating (Temperature rise)

at  $U_{Bmax}=30\text{ V}$ ,  $I_L=100\text{ mA}$

at  $U_{Bmax}=30\text{ V}$ ,  $I_L=50\text{ mA}$

at  $U_{Bmax}=30\text{ V}$ ,  $I_L=25\text{ mA}$

Protection from mechanical danger

Electrostatic charging

Protection of the connection cable

## Manual electrical apparatus for hazardous areas

for use in hazardous areas with non-conducting combustible dust

94/9/EG

EN 50281-1-1

Protection via housing

Use is restricted to the following stated conditions

CE

II 3D IP67 T 122 °C X

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!

Laws and/or regulations and standards governing the use or intended usage goal must be observed.

No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.

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.

The maximum permissible operating voltage  $U_{Bmax}$  must be restricted to the values given in the following list. Tolerances are not permitted.

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.

52 °C

50 °C

47 °C

The sensor must not be mechanically damaged.

Electrostatic charges on the metal housing components must be avoided. Dangerous electrostatic charges on the metal housing components can be avoided by incorporating these components in the equipotential bonding.

The connection cable must be prevented from being subjected to tension and torsional loading.