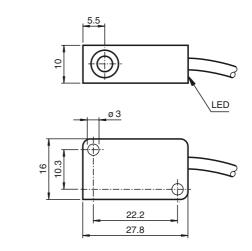
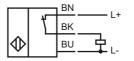


Dimensions



## **Electrical Connection**



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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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## ATEX 3G (nA) Instruction

Device category 3G (nA) CE marking

ATEX marking

Directive conformity Standards

Genera

Installation, commissioning

Maintenance

Special conditions Maximum operating current IL

Maximum operating voltage UBmax

Maximum permissible ambient temperature  $T_{Umax}$ 

at U<sub>Bmax</sub>=30 V, I<sub>L</sub>=100 mA at U<sub>Bmax</sub>=30 V, I<sub>L</sub>=50 mA at U<sub>Bmax</sub>=30 V, I<sub>L</sub>=25 mA Protection from mechanical danger Protection from UV light

Protection of the connection cable

## Manual electrical apparatus for hazardous areas

for use in hazardous areas with gas, vapour and mist CE ⟨€x⟩ II 3G Ex nA IIC T6 X The Ex-significant identification is on the enclosed adhesive label 94/9/EG EN 60079-0:2006, EN 60079-15:2005 Ignition protection category "n" Use is restricted to the following stated conditions 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 observed! 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 UB max is restricted to the values in the following list. Tolerances are not permissible. dependant of the load current  $I_L$  and the max. operating voltage  $U_{\text{Bmax.}}$ 

Information can be taken from the following list. 30 °C (86 °F)

31 °C (87.8 °F)

33 °C (91.4 °F)

The sensor must not be exposed to ANY FORM of mechanical danger.

The sensor and the connection cable must be protected from damaging UV-radiation. This can be achieved when the sensor is used in internal areas.

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

NBB2-V3-E3-3G-3D

ATEX 3D (tD)	
Instruction	Manual electrical apparatus for hazardous areas
Device category 3D CE marking	for use in hazardous areas with combustible dust C $\epsilon$
ATEX marking	(₩) II 3D Ex tD A22 IP67 T80°C X
Directive conformity	94/9/EG
Standards	EN 61241-0:2006, EN 61241-1:2004 Protection via housing "tD" 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 maximum surface temperature has been determined in accordance with method A without a dust layer on the equipment. 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.
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 UBmax must be restricted to the values given in the following list. Tolerances are not permitted.
Maximum permissible ambient tempera- ture T <sub>Umax</sub>	dependant of the load current $I_{\rm L}$ and the max. operating voltage $U_{\rm Bmax.}$ Information can be taken from the following list.
at U <sub>Bmax</sub> =30 V, I <sub>L</sub> =100 mA	30 °C (86 °F)
at U <sub>Bmax</sub> =30 V, I <sub>L</sub> =50 mA	31 °C (87.8 °F)
at U <sub>Bmax</sub> =30 V, I <sub>L</sub> =25 mA	33 °C (91.4 °F)
Protection from mechanical danger	The sensor must not be exposed to ANY FORM of mechanical danger.
Protection from UV light	The sensor and the connection cable must be protected from damaging UV-radiation. This can be achieved when the sensor is used in internal areas.
Protection of the connection cable	The connection cable must be prevented from being subjected to tension and torsional loading.

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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