

CE

Model Number

NBB2-V3-E2-3D

Features

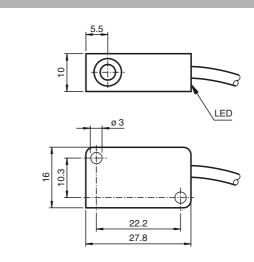
- Basic series
- 2 mm flush

Technical Data	
General specifications	
Switching element function	
Rated operating distance	s _n
Installation	
Output polarity	
Assured operating distance	sa
Reduction factor r _{AI}	
Reduction factor r _{Cu}	
Reduction factor r ₃₀₄	
Nominal ratings	
Operating voltage	UB
Switching frequency	f
Reverse polarity protection	
Short-circuit protection	
Voltage drop	Ud
Operating current	IL.
Off-state current	l _r
No-load supply current	I ₀
Switching state indicator	
Standard conformity	
Standards	
Ambient conditions	
Ambient temperature	
Mechanical specifications	
Core cross-section	
Housing material	
Sensing face	

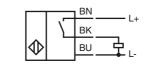
Sensing face Degree of protection General information Use in the hazardous area Category

	PNP	NO	
s _n	2 mm		
	flush		
	DC		
sa	0 1.62 mm		
	0.35		
	0.2		
	0.7		
UB	10 30 V		
f	0 1000 Hz		
	all connection	าร	
	pulsing		
Ud	\leq 3 V		
IL.	0 100 mA		
l _r		/p. 0.1 μA at 25 °C	
I ₀	≤ 15 mA		
	LED, yellow		
	IEC / EN 609	47-5-2:2004	
	-25 70 °C (-13 158 °F)	
	0.14 mm ²		
	PBT		
	PBT		
	IP67		
	see instructio	n manuals	
	3D		

Dimensions



Electrical Connection



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

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ATEX 3D

Instruction

Manual electrical apparatus for hazardous are	as
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Device category 3D CE marking	for use in hazardous areas with non-conducting combustible dust C ϵ
ATEX marking	⟨x̄⟩ II 3D IP67 T 99 °C (210.2 °F) X
Directive conformity	94/9/EG
Standards	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, Comissioning	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 $\mathrm{U}_{\mathrm{Bmax}}$	The maximum permissible operating voltage UBmax 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	29 K
at U _{Bmax} =30 V, I _L =50 mA	28 K
at U _{Bmax} =30 V, I _L =25 mA	25 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.

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