CE

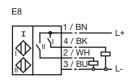
Model Number

NBN3-F25F-E8-V1-3D

Features

· Satisfies machinery directive

Connection



Release date: 2008-07-31 15:42 Date of issue: 2008-07-31 129859_ENG.xml

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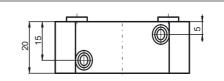
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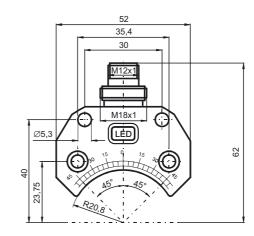
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Dimensions





General specifications	
Switching element function	
Rated operating distance	
Installation	
Output polarity	
Assured operating distance	
Reduction factor rate	

Technical Data

	Output polarity		50
	Assured operating distance	s _a	0
	Reduction factor r _{Al}		0.5
	Reduction factor r _{V2A}		1
	Reduction factor r _{St37}		1.1
I	Nominal ratings		
	Operating voltage	UB	10.
	Switching frequency	f	0
	Hysteresis	Н	typ.
	Reverse polarity protection		all c
	Short-circuit protection		puls
	Voltage drop	Ud	≤ 3
	Operating current	۱ _L	0
	Off-state current	l _r	0
	No-load supply current	I ₀	≤ 25
	Operating voltage display		LED
	Indication of the switching state		LED
;	Standard conformity		
	Standards		IEC
1	Ambient conditions		
	Ambient temperature		-25
	Storage temperature		-40
I	Mechanical specifications		
	Connection type		V1-
	Housing material		PB1
	Sensing face		PB
	Protection degree		IP6
	Note		Inst
(General information		
	Use in the hazardous area		see
	Category		3D

	PNPDual Make function
s _n	3 mm
	flush mountable
	DC
sa	0 2.3 mm
	0.5
	1
	1.1
UB	10 30 V
f	0 500 Hz
Н	typ. 5 %
	all connections
	pulsing
Ud	≤ 3 V
ΙL	0 200 mA
l _r	0 0.5 mA typ. 0.1 μA at 25 °C
I ₀	≤ 25 mA
	LED, green
	LED, yellow
	IEC / EN 60947-5-2:2004
	-25 70 °C (248 343 K)
	-40 85 °C (233 358 K)
	V1-connector
	PBT
	PBT
	IP67
	Installation in housing
	see instruction manuals

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	CE
Ex-identification	€ II 3D IP67 T 124 °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, 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.
[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 UBmax	The maximum permissible operating voltage UBmax must be restricted to the values given in the following list. Toleran- ces 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 =200 mA	54 °C
at U _{Bmax} =30 V, I _L =100 mA	41 °C
at U _{Bmax} =30 V, I _L =50 mA	37 °C
at U _{Bmax} =30 V, I _L =25 mA	34 °C
Plug connector	The plug connector must not be disconnected under voltage. The proximity switch is marked as follows: "DO NOT DIS- CONNECT UNDER VOLTAGE!" When the plug connector is disconnected the ingress of dirt into the inner areas (i.e. the areas, which are not accessible in the plugged-in condition) must be prevented. The plug connection can only be separated using a tool. This is achieved by using the locking protection V1-Clip (Moun- ting accessory from Pepperl + Fuchs).
Protection from mechanical danger	The sensor must not be mechanically damaged.

