

Model Number

NCN3-F25-N4-5M

Features

- For installation in housing ٠
- **Direct mounting on standard actuators** ٠
- EC-Type Examination Certificate TÜV99 ATEX 1479X

Accessories

BT32 Activator for F25 series BT32XS Activator for F25 series BT32XAS Activator for F25 series BT33 Activator for F25 series BT34 Activator for F25 series

Technical Data		
General specifications		
Switching function		2 x normally closed (NC)
Output type		NAMUR
Rated operating distance	s _n	3 mm
Installation		flush mountable
Assured operating distance	s _a	0 2.43 mm
Actual operating distance	s _r	2.7 3.3 mm typ.
Reduction factor r _{Al}		0.5
Reduction factor r _{Cu}		0.4
Reduction factor r ₃₀₄		1
Reduction factor r _{St37}		1.1 2-wire
Output type		2-wire
Nominal ratings		2.0.1 (D
Nominal voltage	U _o	8.2 V (R _i approx. 1 kΩ)
Switching frequency	f H	0 1500 Hz
Hysteresis	п	typ. 5 %
Reverse polarity protection Short-circuit protection		reverse polarity protected ves
Suitable for 2:1 technology		yes , Reverse polarity protect
Current consumption		yes, neverse polarity protect
Measuring plate not detected		≥3 mA
Measuring plate detected		<1 mA
Time delay before availability	t,	≤1 ms
Switching state indicator	•V	LED, yellow
Functional safety related parame	ters	,,
MTTF _d		2114 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Ambient conditions		
Ambient temperature		-25 100 °C (-13 212 °F)
Storage temperature		-40 100 °C (-40 212 °F)
Mechanical specifications		
Connection type		cable PVC , 5 m
Cable version		4 x 0.75 mm ²
Core cross-section		0.75 mm ²
Housing material		PBT
Sensing face		PBT
Degree of protection		IP67
Cable		
Bending radius		> 10 x cable diameter
Mass		423 g
Tightening torque, fastening screw	s	M5 x 25 : 2.7 Nm
Note		Mounted on mechanical drive
General information		
Use in the hazardous area		see instruction manuals
Category		1G; 2G; 3G
Compliance with standards and		
directives		
Standard conformity		EN 60047 E 6:2000
NAMUR		EN 60947-5-6:2000 IEC 60947-5-6:1999
Electromagnetic competibility		NE 21:2007
Electromagnetic compatibility Standards		EN 60947-5-2:2007
Otaridardo		IEC 60947-5-2:2007
		.20 000 11 0 2.2007

Approvals and certificates

- FM approval
 - Control drawing UL approval CSA approval CCC approval

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

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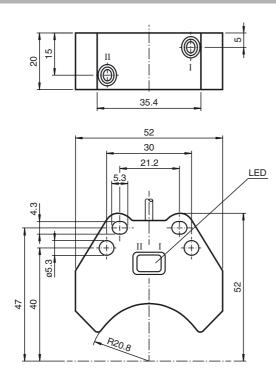
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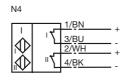


yes, Reverse polarity protection diode not required

Dimensions



Electrical Connection



Equipment protection level Ga		
CE marking		C € 0102
Effective internal inductivity	Ci	≤ 100 nF A cable length of 10 m is considered.
Enective internal inductivity	Ui	The value is applicable for one sensor circuit.
Effective internal inductance	Li	\leq 100 μH A cable length of 10 m is considered. The value is applicable for one sensor circuit.
Highest permissible ambient ten	nperature	Depending on the temperature class, the temperature ranges can be taken from the EU-type examination certificate Note: Use the temperature table for category 1 !!! The 20 % reduction in accordance with EN 1127-1 has already been applied to the temperature table for category 1.
Equipment protection level Gb		
CE marking		€€0102
Effective internal inductivity	Ci	\leq 100 nF ; a cable length of 10 m is considered. The value is applicable for one sensor circuit.
Effective internal inductance	Li	\leq 100 μH ; a cable length of 10 m is considered. The value is applicable for one sensor circuit.
Maximum permissible ambient te	emperature T _{amb}	Depending on the temperature class, the temperature ranges can be taken from the EU-type examination certificat
Equipment protection level Gc (ic)	
CE marking		CE
Effective internal inductivity	Ci	\leq 100 nF A cable length of 10 m is considered. The value applies to a sensor circuit.
Effective internal inductance	Li	\leq 100 μH A cable length of 10 m is considered. The value applies to a sensor circuit.
Equipment protection level Gc (nL)	
Standard conformity		EN 60079-15:2003 Ignition protection category "n" 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 observed!



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