

Model Number

NCB5-18GK40-N0

Features

• 5 mm flush

Pepperl+Fuchs Group

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information". USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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NCB5-18GK40-N	A 18
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Technical Data		
General specifications		
Switching function		Normally closed (NC)
Output type		NAMUR
Rated operating distance	s _n	5 mm
Installation		flush
Assured operating distance	sa	0 4.05 mm
Actual operating distance	sr	4.5 5.5 mm typ. 5 mm
Reduction factor r _{Al}		0.2
Reduction factor r _{Cu}		0.2
Reduction factor r ₃₀₄		0.6
Output type		2-wire
Nominal ratings		
Nominal voltage	U _o	8.2 V (R _i approx. 1 kΩ)
Switching frequency	f	0400 Hz
Hysteresis	н	1 10 typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		yes
Current consumption		≥3 mA
Measuring plate not detected		≤1mA
Measuring plate detected Switching state indicator		all direction LED, yellow
Functional safety related paramet	ore	all direction LED, yellow
	ers	0040 -
MTTF _d		2040 a 20 a
Mission Time (T _M) Diagnostic Coverage (DC)		20 a 0 %
Ambient conditions		0 /8
Ambient temperature Storage temperature		-25 100 °C (-13 212 °F) -40 100 °C (-40 212 °F)
Mechanical specifications		-40 100 C (-40 212 F)
		cable PVC , 2 m
Connection type Core cross-section		0.75 mm ²
Housing material		PBT
Sensing face		PBT
Degree of protection		IP67
Cable		
Bending radius		> 10 x cable diameter
General information		
Use in the hazardous area		see instruction manuals
Category		2G; 1D
Compliance with standards and		-,
directives		
Standard conformity		
NAMUR		EN 60947-5-6:2000
		IEC 60947-5-6:1999
Electromagnetic compatibility		NE 21:2007
Standards		EN 60947-5-2:2007
		IEC 60947-5-2:2007
Approvals and certificates		
FM approval		
Control drawing		116-0165
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated \leq 36 V

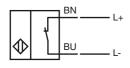
Dimensions

M18x1 37 40 24 LED

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Electrical Connection



Equipment protection level Gb	
CE marking	€€0102
ATEX marking	🐼 II 2G Ex ia IIC T6T1 Gb The Ex-related marking can also be printed on the enclosed label.
Standards	EN 60079-0:2012+A11:2013 EN 60079-11:2012 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions
Appropriate type	NCB5-18GKN0
Effective internal capacitance C _i	\leq 95 nF ; a cable length of 10 m is considered.
Effective internal inductance L _i	\leq 100 μH ; a cable length of 10 m is considered.
Maximum permissible ambient temperature T_{amb}	Details of the correlation between the type of circuit connected, the maximum permissible ambient temperature, the temperature class, and the effective internal reactance values can be found on the EC-type examination certificate.
Equipment protection level Da	
CE marking	C €0102
ATEX marking	🐼 II 1D Ex ia IIIC T135°C Da The Ex-related marking can also be printed on the enclosed label.
Standards	EN 60079-0:2012+A11:2013 EN 60079-11:2012 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions
Appropriate type	NCB5-18GKN0
Effective internal capacitance C _i	\leq 95 nF ; a cable length of 10 m is considered.
Effective internal inductance L _i	\leq 100 μH ; a cable length of 10 m is considered.
Maximum permissible ambient temperature T_{amb}	Details of the correlation between the type of circuit connected, the maximum permissible ambient temperature, the surface temperature, and the effective internal reactance values can be found on the EC-type-examination certificate. The maximum permissible ambient temperature of the data sheet must be noted, in addition, the lower of the two values must be maintained.

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