

## **Model Number**

NJ5-18GK-N-150

## Features

- 5 mm flush ٠
- Temperature range -40 ... 150 °C (-40 ... 302 °F)

	Technical Data		
Ī	General specifications		
	Switching function		Norma
	Output type		NAMU
	Rated operating distance	s <sub>n</sub>	5 mm
	Installation		flush
	Assured operating distance	s <sub>a</sub>	0 4.0
	Reduction factor r <sub>Al</sub>		0.4
	Reduction factor r <sub>Cu</sub>		0.3 0.85
	Reduction factor r <sub>304</sub> Output type		2-wire
	Nominal ratings		2-00116
	Nominal voltage		0.01/
	Switching frequency	U <sub>o</sub> f	8.2 V ( 0 50
	Current consumption		050
	Measuring plate not detected		≥3 mA
	Measuring plate detected		≤1 mA
	Functional safety related paramet	ers	
	MTTF <sub>d</sub>		4542 a
	Mission Time (T <sub>M</sub> )		20 a
	Diagnostic Coverage (DC)		0%
	Ambient conditions		0 /0
	Ambient temperature		-40 '
	Mechanical specifications		10
	Connection type		cable S
	Core cross-section		0.34 m
	Housing material		PPS
	Sensing face		PPS
	Degree of protection		IP65
	Cable		
	Bending radius		> 10 x
	General information		
	Use in the hazardous area		see ins
	Category		1G; 2G
	Compliance with standards and		
	directives		
	Standard conformity		
	NAMUR		EN 609
			IEC 60
	Standards		EN 609
			EN 609
			IEC 60
			IEC 60
	Approvals and certificates		
	EAC conformity		TR CU
	UL approval		E0705
	Ordinary Location		E8705
	Hazardous Location		E5016
	Control drawing		116-04
	CSA approval		cCSAu
	CCC approval		CCC a

NJ5-18GK-N-150
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		Normally closed (NC)
		NAMUR
	s <sub>n</sub>	5 mm
		flush
	sa	0 4.05 mm
		0.4
		0.3
		0.85
		2-wire
	Uo	8.2 V ( $R_i$ approx. 1 k $\Omega$ )
	f	0 500 Hz
ł		≥3 mA
-		<1 mA
met	ers	
	010	4542 a
		4542 a 20 a
		20 a 0 %
		0 %
		-40 150 °C (-40 302 °F)
		cable SIHF , 2 m
		0.34 mm <sup>2</sup>
		PPS
		PPS
		IP65
		> 10 x cable diameter
		see instruction manuals
		1G; 2G
nd		-, -
		EN 60947-5-6:2000
		IEC 60947-5-6:1999
		EN 60947-5-2:2007
		EN 60947-5-2/A1:2012
		IEC 60947-5-2:2007
		IEC 60947-5-2 AMD 1:2012
		TR CU 012/2011
		11.00.012/2011
		E87056
		E501628
		116-0452
		cCSAus Listed, General Purpose
		CCC approval / marking not required for products rated ≤36 V

## M18x1 34,5 24,5 40 24

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

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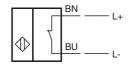
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Dimensions

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**DEPPERL+FUCHS** 

## **Electrical Connection**



Equipment protection level Ga		
CE marking		C €0102
ATEX marking		↔ II 1G Ex ia IIC T6T1 Ga 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		NJ5-18GK-N-150
Effective internal capacitance	Ci	$\leq$ 70 nF ; a cable length of 10 m is considered.
Effective internal inductance	Li	$\leq$ 50 $\mu$ H ; a cable length of 10 m is considered.
Highest permissible ambient tem	perature	Details of the correlation between the type of circuit connected, the maximum permissible ambient temperature, th temperature class, and the effective internal reactance values can be found on the EU-type examination certificate <b>Note:</b> 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.
Special conditions		
Equipment protection level Gb		
CE marking		C €0102
ATEX marking		↔ II 1G Ex ia IIC T6T1 Ga 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		NJ5-18GK-N-150
Effective internal capacitance	Ci	$\leq$ 70 nF ; a cable length of 10 m is considered.
Effective internal inductance	Li	$\leq$ 50 $\mu$ H ; a cable length of 10 m is considered.
Maximum permissible ambient ter	mperature T <sub>amb</sub>	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 EU-type examination certificate
Special conditions		
Equipment protection level Da		
CE marking		C € 0102
ATEX marking		<ul> <li>(☑) II 1D Ex ia IIIC T135°C Da</li> <li>The Ex-related marking can also be printed on the enclosed label.</li> </ul>
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		NJ5-18GK-N-150
Effective internal capacitance	Ci	$\leq$ 70 $\mu\text{F}$ A cable length of 10 m is considered.
Effective internal inductance	Li	$\leq$ 50 $\mu H$ A cable length of 10 m is considered.

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