





Model Number

NJ2-11-N-G-Y129365

Features

Comfort series

Tec	hn	2	_	212
IEL		ucai		ala

General specifications		
Switching function		Normally closed (NC)
Output type		NAMUR
Rated operating distance	s _n	2 mm

flush Installation Assured operating distance 0 ... 1.62 mm Actual operating distance Reduction factor r_{Al} 1.8 ... 2.2 mm 0.4 Reduction factor r_{Cu} 0.3 Reduction factor r₃₀₄ 0.85 2-wire

Output type **Nominal ratings**

Nominal voltage 8 V 0 ... 3000 Hz 0.5 ... 3.5 typ. 2 % Switching frequency Hysteresis Current consumption

 \geq 3 mA Measuring plate not detected Measuring plate detected \leq 1 mA

Functional safety related parameters

MTTF_d 5887 a Mission Time (T_M)
Diagnostic Coverage (DC) 0 %

Ambient conditions

Ambient temperature -25 ... 100 °C (-13 ... 212 °F)

Mechanical specifications

Connection type cable PVC, 5 m Core cross-section Housing material

0.34 mm² Stainless steel 1.4305 / AISI 303 Sensing face

Degree of protection

Cable

Bending radius
General information Use in the hazardous area

see instruction manuals 1G; 2G; 1D Category

Compliance with standards and directives

Standard conformity

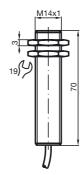
NAMUR EN 60947-5-6:2000 IEC 60947-5-6:1999

Standards EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

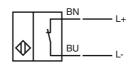
cULus Listed, General Purpose UL approval

Dimensions



> 10 x cable diameter

Electrical Connection



Equipment protection level Ga			
CE marking		C €0102	
ATEX marking		(Ex) 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		NJ 2-11-N-G	
Effective internal capacitance	C _i	≤ 30 nF; a cable length of 10 m is considered.	
Effective internal inductance	L _i	\leq 50 μH ; a cable length of 10 m is considered.	
Ambient temperature		Details of the correlation between the type of circuit connected, the maximum permissible ambient temperature, t temperature class, and the effective internal reactance values can be found on the EC-type examination certificat 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	
ATEX marking		(x) II 1G Ex ia IIC T6T1 Ga The Ex-significant identification is on the enclosed adhesive 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		NJ 2-11-N-G	
Effective internal capacitance	C _i	≤ 30 nF; a cable length of 10 m is considered.	
Effective internal inductance	L _i	\leq 50 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		(x) 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		NJ 2-11-N-G	
Effective internal capacitance	C _i	≤ 30 nF; a cable length of 10 m is considered.	
Effective internal inductance	L _i	\leq 50 μH ; a cable length of 10 m is considered.	
Maximum permissible ambient te	mperature 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.	