



Model Number

NJ5-30GK-S1N-Y37296

Features

- 5 mm flush in ST37 / 1.0037
- Nonferrous targets

Technical Data

General specifications

Switching function		Normally open (NO)
Output type		NAMUR with safety function
Rated operating distance	s_n	5 mm
Installation		flush in mild steel
Assured operating distance	s_a	0 ... 4.05 mm
Reduction factor r_{Al}		1
Reduction factor r_{Cu}		1
Reduction factor r_{304}		0
Output type		2-wire

Nominal ratings

Nominal voltage	U_o	8 V
Switching frequency	f	0 ... 150 Hz
Current consumption		
Measuring plate not detected		≤ 1 mA
Measuring plate detected		≥ 3 mA

Ambient conditions

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

Connection type		cable PUR , 2 m
Core cross-section		0.5 mm ²
Housing material		PP
Sensing face		PP
Degree of protection		IP68
Cable		
Bending radius		> 10 x cable diameter
Note		only for non-ferrous metal

General information

Use in the hazardous area		see instruction manuals
Category		2G

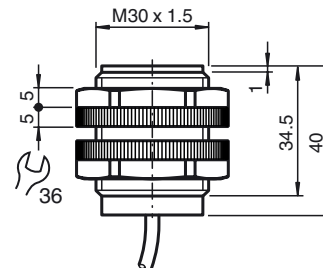
Compliance with standards and directives

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

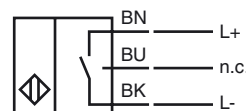
Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose

Dimensions



Electrical Connection



Equipment protection level Gb		
CE marking		CE 0102
ATEX marking		II 2G Ex ia IIC T6...T1 Gb
Directive conformity		94/9/EG
Standards		EN 60079-0:2012, EN 60079-11:2012 Ignition protection "Intrinsic safety" Use is restricted to the following stated conditions
Appropriate type		NJ 5-30GK-S1N...
Effective internal inductivity	C_i	$\leq 100 \text{ nF}$; a cable length of 10 m is considered.
Effective internal inductance	L_i	$\leq 200 \text{ }\mu\text{H}$; a cable length of 10 m is considered.
Maximum permissible ambient temperature T_{amb}		The temperature ranges, according to temperature class, are given in the EC-Type Examination Certificate.

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