



Model Number

NJ3-V3-N-Y30018

Technical Data

General specifications

Switching element function		NAMUR, NC
Rated operating distance	s_n	3 mm
Installation		embeddable
Assured operating distance	s_a	0 ... 2.4 mm
Reduction factor r_{Al}		0.4
Reduction factor r_{Cu}		0.3
Reduction factor r_{304}		0.7

Nominal ratings

Nominal voltage	U_o	8 V
Switching frequency	f	0 ... 2000 Hz
Hysteresis	H	typ. 0.2 %
Current consumption		
Measuring plate not detected		≥ 3 mA
Measuring plate detected		≤ 1 mA
Indication of the switching state		LED, yellow

Limit data

Tightening torque, fastening screws		0.4 Nm
-------------------------------------	--	--------

Standard conformity

Standards		EN 50044
-----------	--	----------

Ambient conditions

Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
---------------------	--	--------------------------------

Mechanical specifications

Core cross-section		0.14 mm ²
Housing material		PBT
Sensing face		PBT
Protection degree		IP67

ATEX

Data for Ex areas

Effective internal inductivity	C_i	$\leq 100 \text{ nF}$
Effective internal inductance	L_i	$\leq 50 \text{ }\mu\text{H}$

Release date: 2005-02-21 10:43 Date of issue: 2012-02-03 t1403_eng.xml