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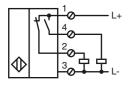
Model Number

NBN30-FPS-A2

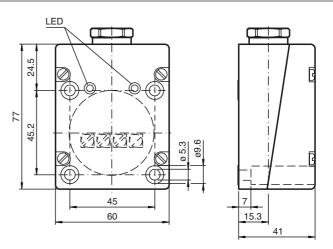
Features

- 30 mm non-flush
- 4-wire DC

Connection



Dimensions



Technical Data		
General specifications		
Switching element function		PNP NO/NC
Rated operating distance	Sn	30 mm
Installation	o _n	non-flush
Output polarity		DC
Assured operating distance	Sa	0 24.3 mm
Actuating element	oa −	mild steel, e. g. 1.0037, SR235JR (formerly St37-2)
riotaamig cromom		90 mm x 90 mm x 1 mm
Reduction factor rAI		0.2
Reduction factor r _{Cu}		0.1
Reduction factor r ₃₀₄		0.5
Reduction factor r _{Brass}		0.2
Nominal ratings		
Operating voltage	U_{R}	10 30 V DC
Switching frequency	f	0 50 Hz
Hysteresis	Н	0.05 7.26 mm
Reverse polarity protection		ves
Short-circuit protection		ves
Overload resistance		yes
Wire breakage protection		yes
Inductive overvoltage protection		yes
Surge suppression		yes
Ripple		10 %
Voltage drop	U _d	≤ 2.5 V
Repeat accuracy		0.75 mm
Operating current	ΙL	0 200 mA
Off-state current	l _r	≤ 0.01 mA
No-load supply current	I ₀	≤ 20 mA
Time delay before availability	t_v	≤ 100 ms
Operating voltage display		LED, green
Indication of the switching state		LED, yellow
Functional safety related parameters		
MTTF _d		1430 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Ambient conditions		
Ambient temperature		-25 85 °C (-13 185 °F)
Storage temperature		-40 85 °C (-40 185 °F)
Mechanical specifications		
Connection type		screw terminals
Core cross-section		up to 2.5 mm ²
Housing material		PBT
Sensing face		PBT
Housing base		PBT
Protection degree		IP65
Mass		270 g
Compliance with standards and d	irectives	•

EN 60947-5-2:2007

IEC 60947-5-2:2007

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Standard conformity

Approvals and certificates

Standards

CCC approval

Products with a maximum operating voltage of $\leq 36 \text{ V}$ do not bear a CCC marking because they do not require approval.

Installation hint

These sensors are especially designed for embeddable mounting in conveyor floors. Due to its precise location in metal base plates the sensor is afforded a high degree of mechanical protection. No clearance is required between the sensor and the base plate, avoiding the need for protective guarding to prevent possible foot injury.

The large sensing range ensures positive detection, and thus provides consistent control and monitoring of the conveyor.

