



CE



Model Number

NBN30-L2-B3B-V1

Features

- Basic series
- A/B slave with extended addressing possibility for up to 62 slaves
- Sensor head bidirectional and rotatable
- NO/NC selectable
- Oscillator monitoring
- On/Off delay (disconnectable)

Technical Data

General specifications

Switching function		Normally open/closed (NO/NC) programmable
Output type		AS-Interface
Rated operating distance	s_n	30 mm
Installation		non-flush
Assured operating distance	s_a	0 ... 24.3 mm
Reduction factor r_{AI}		0.45
Reduction factor r_{Cu}		0.4
Reduction factor r_{304}		0.8
Output type		2-wire

Nominal ratings

Operating voltage	U_B	26.5 ... 31.9 V via AS-i bus system
Switching frequency	f	0 ... 100 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity protected
Time delay before availability	t_v	≤ 1000 ms
Operating voltage indicator		LED green
Switching state indicator		LED yellow
Error indicator		LED red

Standard conformity

Standards	IEC / EN 60947-5-2:2004
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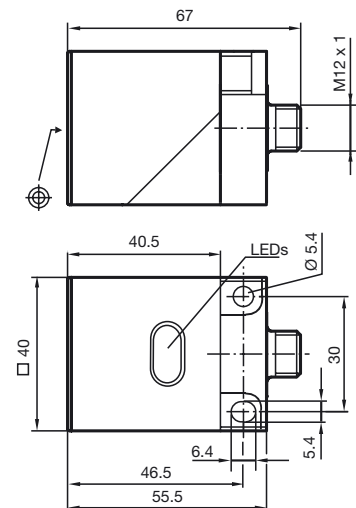
Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

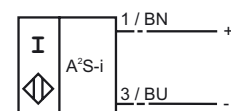
Housing material	PBT
Sensing face	PBT
Degree of protection	IP67
Mass	210 g

Dimensions



Electrical Connection

B3B



Programming Instructions

Adress 00 preset, alterable
 via Busmaster
 or programming units
 IO-Code 0
 ID-Code A
 ID1-Code 7
 ID2-Code E

Data bit

Bit	Function
D0	Switching state
D1	not used
D2	Oscillator monitoring
D3	not used

Parameter bit

Bit	Function
P0	ON / Off delay activated* / deactivated
P1	Switching element function NO* / NC
P2	not used
P3	not used

*Standard setting

Indication depending on the operation mode

Symptoms	green LED (POWER)	red LED (FAULT)	Data bit D2
normal operation	on	off	1
Oscillator defect	flashing	flashing	0
no communication	off	on	1

On/off delay:

The on/off delay is preset and switched on (P0=1). On delay approx.15 ms, when P0=1 and NO function (P1=1). Off delay approx.15 ms, when P0=1 and NC function (P1=0).

Release date: 2019-08-23 13:03 Date of issue: 2019-08-23 089281_eng.xml