

Model Number

NBN40-L2-B3B-V1

Features

- **40 mm non-flush**
- **A/B slave with extended addressing possibility for up to 62 slaves**
- **Sensor head bidirectional and rotatable**
- **NO/NC programmable**
- **Oscillator monitoring**
- **On/Off delay (disconnectable)**

Accessories

V1-G
Female connector, M12, 4-pin, field attachable

V1-W
Female connector, M12, 4-pin, field attachable

V1-G-2M-PUR
Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR
Female cordset, M12, 4-pin, PUR cable

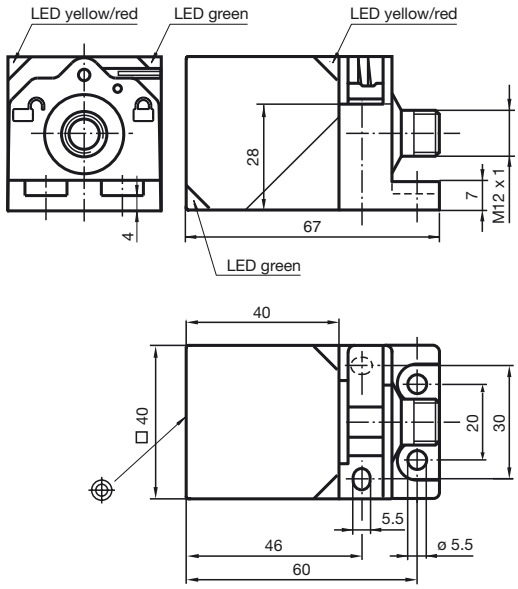
MHW 01
Modular mounting bracket

MH 02-L
Mounting aid

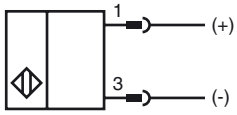
Technical Data

General specifications		
Switching element function		NO/NC programmable
Rated operating distance	s_n	40 mm
Installation		non-flush
Output polarity		AS-Interface
Assured operating distance	s_a	0 ... 32.4 mm
Reduction factor r_{Al}		0.3
Reduction factor r_{Cu}		0.3
Reduction factor r_{304}		0.75
Slave type		A/B slave
AS-Interface specification		V3.0
Required master specification		≥ V2.1
Nominal ratings		
Operating voltage	U_B	26.5 ... 31.9 V via AS-i bus system
Switching frequency	f	0 ... 50 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity protected
No-load supply current	I_0	≤ 25 mA
Time delay before availability	t_v	≤ 1000 ms
Operating voltage display		LED, green
Switching state indication		LED, yellow
Fault indication		LED, red
Functional safety related parameters		
$MTTF_d$		1330 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		Connector M12 x 1 , 4-pin
Housing material		PA
Sensing face		PA
Protection degree		IP69K
Mass		210 g
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
CCC approval		CCC approval / marking not required for products rated ≤36 V

Dimensions

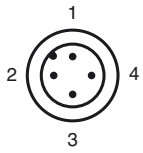


Electrical Connection



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Pinout



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

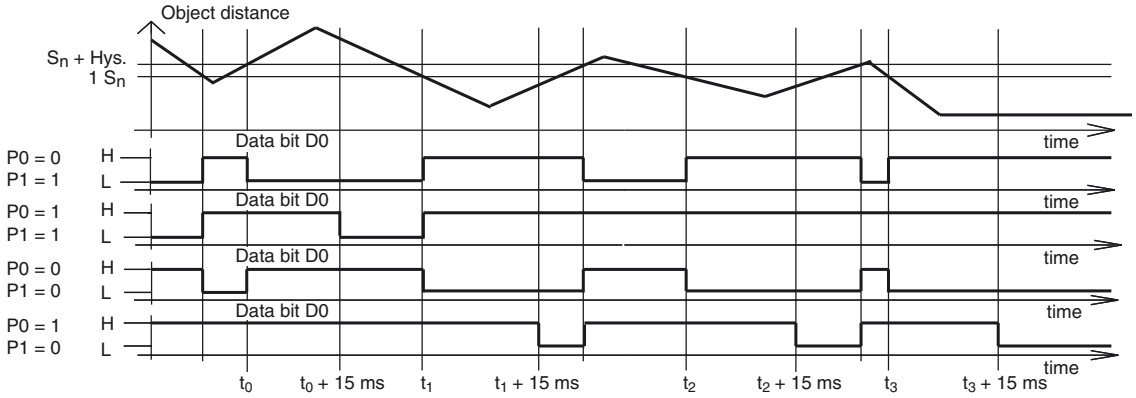
Bit	Function
P0	ON / Off delay activated* / deactivated
P1	Switching element function NO* / NC
P2	not used
P3	not used

*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).

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