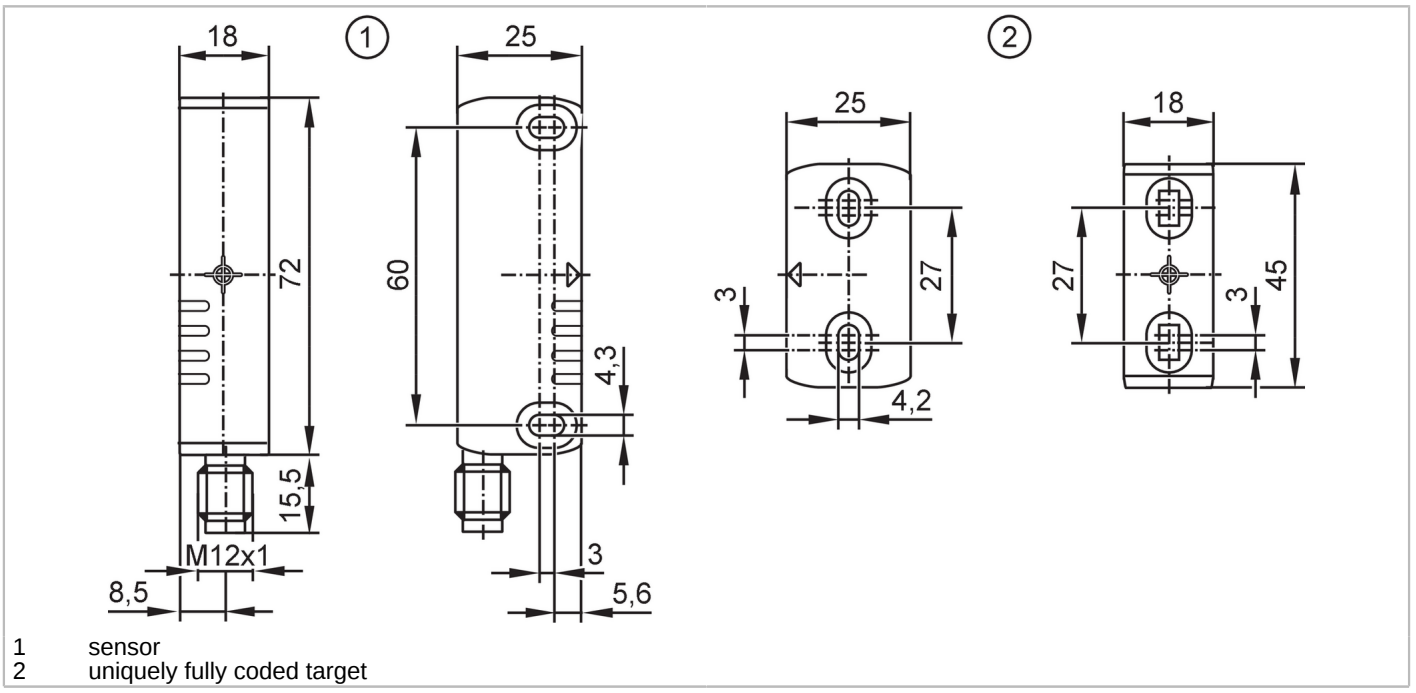
MN701S

RFID-coded safety sensor

MN38010-BPKG/UC/US



1 sensor
2 uniquely fully coded target

Product characteristics		
Electrical design		PNP
Output function		2 x OSSD, 1 x PNP
Sensing range	[mm]	12; (with defined actuator)
Housing		rectangular
Dimensions	[mm]	72 x 18 x 25
Application		
Design		uniquely fully coded target
Type of operation		permanent operation
Radio approval for		USA; Canada; Australia; EU/RED; China; Singapore; New Zealand
Note on radio approval		The list of countries applying the European Radio Equipment Directive 2014/53/EU (RED) can be found under “Downloads”.
Electrical data		
Operating voltage	[V]	20.4...26.4 DC
Rated insulation voltage	[V]	32
Operating current	[mA]	40...700
No-load current	[mA]	30
Current consumption	[mA]	< 50
Protection class		III
Reverse polarity protection		yes
Max. power-on delay time	[ms]	1500
RFID		
Operating frequency	[MHz]	0,125
Transmission power ERP	[mW]	0.0002245

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Outputs		
Electrical design		PNP
Output function		2 x OSSD, 1 x PNP
Max. leakage current	[mA]	0.5
Permanent current rating of switching output DC	[mA]	50
Switching frequency DC	[Hz]	1
Output data		interface type C class 2
Short-circuit protection		yes
Overload protection		yes
Max. capacitive load CL_max	[nF]	200
Detection zone		
Sensing range	[mm]	12; (with defined actuator)
Safe switch-off distance s(ar)	[mm]	16
Accuracy / deviations		
Hysteresis	[%]	20
Repeatability analogue output	[%]	≤ 10; (% Sn)
Response times		
Response time to safety request	[ms]	160
Response time when approaching the enable zone	[ms]	600
Operating conditions		
Applications		class C to EN 60654-1 sheltered locations
Ambient temperature	[°C]	-25...70
Note on ambient temperature		operational life ≤ 87600 h
Ambient temperature	[°C]	10...40
Note on ambient temperature		operational life ≤ 175200 h
Max. relative air humidity	[%]	briefly: 5...95 %; permanent: 5...70 %
Air pressure	[kPa]	80...106
Max. height above sea level	[m]	2000
Ionising radiation		not permissible
Salt spray		no
Protection		IP 65; IP 67

Tests / approvals		
EMC	IEC 60947-5-3	
Shock resistance	EN 60068-2-27	30 g (11 ms)
Vibration resistance	IEC 60068-2-6	10 g (10...55 Hz)

Safety classification		
Complies with the requirements		ISO 13849-1: 2015 category 4, PL e
		IEC 62061 SIL 3
Mission time TM	[h]	≤ 175200
Mission time TM (additional indication)		20 years
PFH	[1/h]	1,5E-09

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Mechanical data		
Weight	[g]	176.5
Housing		rectangular
Mounting		non-flush mountable
Type of mounting		door hinge on right side
Dimensions	[mm]	72 x 18 x 25
Materials		PA
Tightening torque	[Nm]	0.8...2

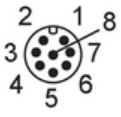
Displays / operating elements		
Display	function	1 x LED, (ACT)
	input	1 x LED, (IN)
	Output	1 x LED, (OUT)
	operation	1 x LED, (PWR)

Accessories	
Items supplied	uniquely fully coded target
	washers: 4
	cover caps: 8

Remarks	
Pack quantity	1 pcs.

Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 8; Moulded body: stainless steel (304/1.4301)

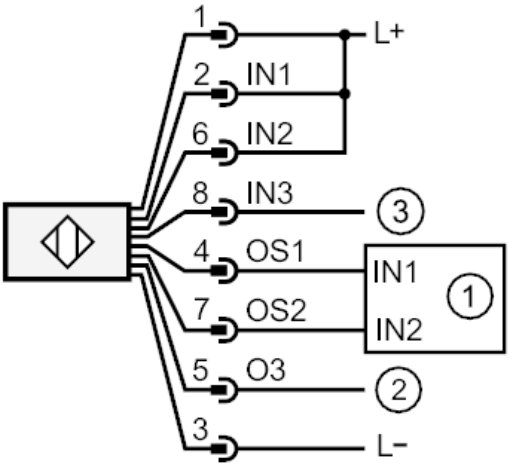


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Connection



1: safety-related logic unit
2: Programmable Logic Controller (PLC)
3: not used