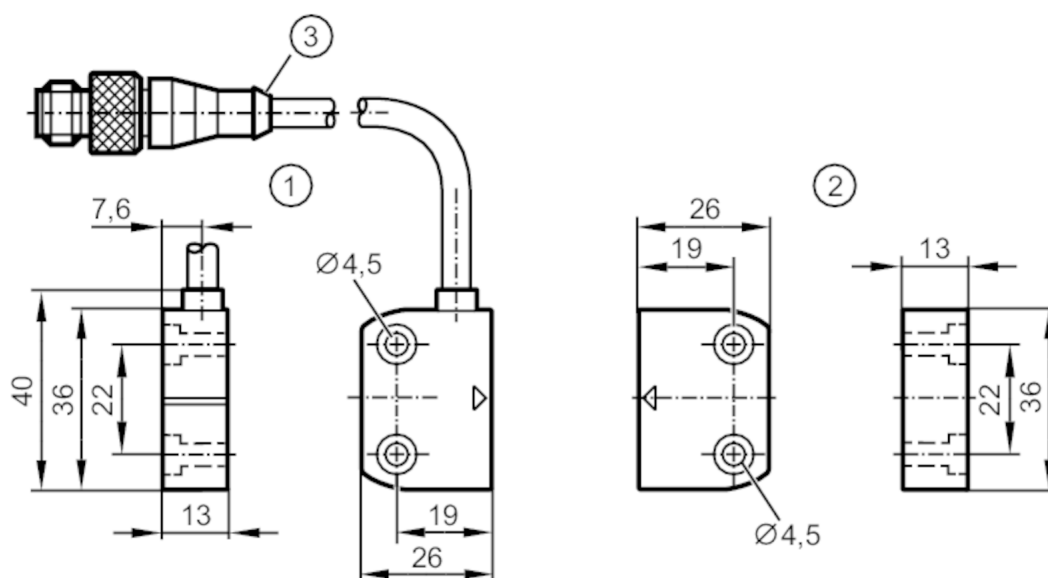


MN207S



Magnetically coded sensor

MN14005-AKOG/L/0.1m/-H/US



- 1 sensor
- 2 coded target
- 3 illustration (example)



Product characteristics

Output function		2 x normally open; (potential-free)
Sensing range	[mm]	5; (with defined actuator)
Housing		rectangular
Dimensions	[mm]	36 x 13 x 26

Application

Design		coded target
Type of operation		permanent operation

Electrical data

Operating voltage	[V]	24 DC; (cULus - Class 2 source required)
Rated insulation voltage	[V]	60
Protection class		III
Reverse polarity protection		no
Internal resistance (R _i)	[Ω]	10; (1 W)

Outputs

Output function		2 x normally open; (potential-free)
Permanent current rating of switching output DC	[mA]	50
Switching frequency DC	[Hz]	150
Output data		Interface type A
Short-circuit proof		no
Max. capacitive load CL _{max}	[nF]	20

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Monitoring range		
Sensing range	[mm]	5; (with defined actuator)
Safe switching-off distance s(ar)	[mm]	15
Reaction times		
Response time to safety request	[ms]	10
Max. fall time	[ms]	0.1
Max. make time incl. bounce	[ms]	0.6
Operating conditions		
Applications	Class C to EN 60654-1 weatherproof application	
Ambient temperature	[°C]	-25...80
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
Salt spray	no	
Protection	IP 67; IP 69K; (protected cable laying)	
Tests / approvals		
EMC	IEC 60947-5-1	
Shock resistance	EN 60068-2-27	30 g (11 ms)
Vibration resistance	IEC 60068-2-6	10 g (10...55 Hz)
UL approval	Enclosure type	Type 1, 4x, "for indoor use only", 12
	voltage supply	Class 2
	File number UL	E174191
Safety classification		
Mission time TM	[h]	≤ 175200
Mission time TM (additional indication)	20 years	
B10D	20.000.000; (without load; at max. load DC 12, 24 V, 50 mA: 400.000)	
Mechanical data		
Weight	[g]	130.5
Housing	rectangular	
Mounting	non-flush mountable	
Dimensions	[mm]	36 x 13 x 26
Material	PA	
Tightening torque	[Nm]	0.8...2
Accessories		
Items supplied	coded target	
Remarks		
Remarks	In connection with a G150xS / AC4x2S type evaluation unit, it is possible to reach up to PL e (ISO 13849-1) or SIL cl 3 (IEC 62061)	
Pack quantity	1 pcs.	

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Electrical connection - plug

Cable: 0.1 m, PVC, Ø 5 mm

Connector: 1 x M12



Connection

