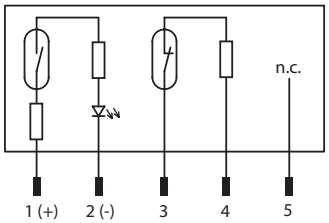
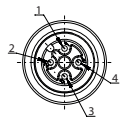
Coded Magnetic Switch
Series MAK-53

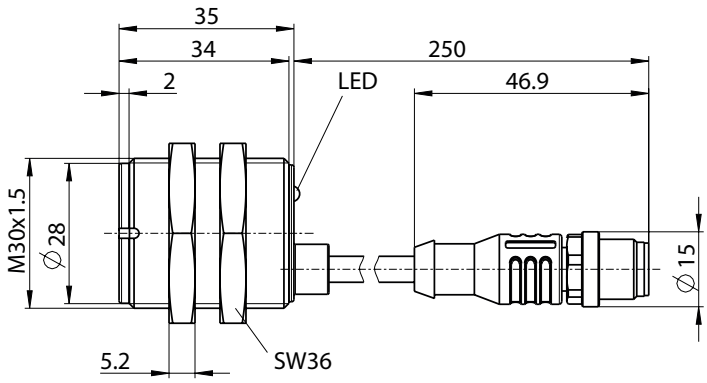
Description **MAK-5326-CD-0.25-M12** Article number **6490653411**

Wiring diagram

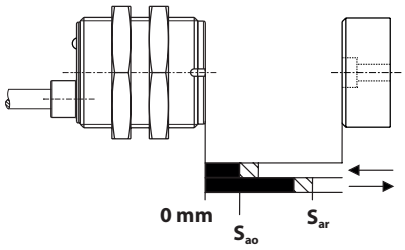


Plug





Actuating direction / Operating distance



Technical data		
Switching function		1 x NO contact, 1 x NC contact
Reference magnet		TK-53-CD/2 (6402053088)
Assured operating distance - ON	S_{ao}	≥ 5 mm
Assured operating distance - OFF	S_{ar}	≤ 14 mm
Repeat accuracy	R	± 0,1 mm, under same geometrical conditions at the same temperature
Utilization category		DC-12
Frequency of operating cycles	f	1 Hz

Electrical data	
Max. voltage	30 V DC
Max. switching current	0,08 A
Max. switching capacity	0,25 W
Internal series resistors	27 Ω, per channel (+ LED series resistor)
Protection class acc. to EN IEC 61558	III (safety extra-low voltage)
Note	Combinations of switching voltage and switching current must not exceed the maximum switching capacity.

Mechanical data	
Enclosure	PBT, black (encapsulated reed contact)
For attachment	2 x hexagon nut (PA6.6, black)
Indication	1 x LED yellow, actuation status
Temperature range	- 5 °C ... + 70 °C (cable not fixed mounted) - 25 °C ... + 70 °C (cable fixed mounted)
Mechanical life	3 x 10^8 operating cycles
Vibration	10 G (10 - 2000 Hz)
Shock	100 G (11 ms, ½ Sinewave)
Protection type	IP 67 acc. to EN 60529 (only in fully locked position with it's plugs)
Degree of pollution	3 acc. to 60947-1
Termination type	Cable 5 x 0,34 mm^2; PUR - Outer jacket with M12 male connector, 5-pin, A-coding
Assembly position	optional (assembly on ferromagnetic material means reduction of switch distance)

ID for safety engineering	
B10d	20 x 10^6 Zyklen (20 % load) 0,4 x 10^6 Zyklen (nominal load)
Mission time	20 years

Standards	
	DIN EN ISO 13849-1
	EN 60947-5-3
Note	The standard EN 60947-5-3 is only complied with by a complete system consisting of coded magnetic switch with associated actuator and a suitable safety safety evaluation system.

EU Conformity	
	acc. to directive 2006/42/EC (Safety-of-Machinery-Directive)

Approvals	
	UL Listed, Ind. Cont. Eq. / Class 2 Power source

Notes
Contact protection must be provided for inductive and capacitive loads.