

special features

> Precise haptics

Safe gold contacts

Simple M12 plug&play connection

> Protected contacts due to sealed housing

RAMO 22 S, M12, round collar, 2 NO, Gold, M12 4-pin A-coded, frontring metallic silver, 2 x 40°, momentary contact function



fields of application

- > Measurement-control-regulation
- > Electrical engineering
- > Mechanical and system engineering
- > Signalling systems
- > Vehicle construction
- > Chemical industry
- > Industrial robots

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description

The RAMO S selector switches offer a solution for every application thanks to a wide variety of contact functions, rotation angles, actuation functions and illuminated panels.

Just like all RAMO actuators, connection is simple using Plug&Play and without any manual wiring - with M12 sensor cables.

Additional information according to UL certificate:

For Class 2 Power Source or Limited Voltage / Limited Current only

Installation only by trained specialist personnel.

Type 4x Indoor only with cable "Cat. No. 7000-08061-0210100 PUR 4x0.25mm² with M8 connector, rated max. 30VAC/DC 4A,

manufactured by Murrelektronik GmbH" and "Cat. No. 7000-12221-0340100 PUR 4x0.34mm² with M12 connector, rated max. 30VAC/ DC 4A, manufactured by Murrelektronik GmbH"

For Use on a Flat Surface of a Type 1 or 4x indoor only Enclosure.

technical data

> general					
	Potential free	no	direct links		
	Color	black	➤ RAFI eCatalog		
	Bezel color	white			
	Property of bezel / mushroom	transparent			
	Collar color	black			
	Front ring color	metallic silver			
	Collar shape	round			
	Operating temperature, min.	-40 °C			
	Operating temperature, max.	85 °C			
	Storage temperature, min.	-40 °C			

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	Storage temperature, max.	90 °C
	illuminated	No
	Packaging	Box
	Packaging unit	2 pcs.
	net weight	16.9 g
	Operating life	200,000 cycles
	B10	250,000 cycles
	Degree of protection, front side,	IP65
	according to DIN EN 60529	
	Degree of protection, rear side,	IP65
	according to DIN EN 60529	
	UL Enclosure Type Rating front	type 4X indoor
	side	
	Environment resistance	IEC 60068-2-14
		IEC 60068-2-30
		IEC 60068-2-78
	Shock resistance according to standard IEC 60068-2-27	30 g at 11 ms amplitude semi-sinusoidal
	Salt-spray resistance according to	IEC 60068-2-11
	standard	
	Impact resistance IK	02 side
		08 frontal
	oscillation restistance according to standard IEC 60068-2-6	5 g at 10500 Hz
	MOQ order	2 pcs.
	Pollution degree acc. to DIN EN	Pollution degree 2
	61010-1	
	RoHS compliant	Yes
	REACH compliant	Yes
>	mounting diameters	
	Outside dimension, length	29.8 mm
	Outside dimension, width	29.8 mm
	Outside dimension, height	53.9 mm
	Mounting hole	22.3 mm
	Mounting depth	30.1 mm
	Installation height	23.8 mm
	Grid, min.	30 mm
>	mechanical data	
	Actuation function	momentary contact function
	Resistance to force on the side	300 N
	Contact function	2 NO
	Contact material	Gold
	Rotating angle	2 x 40°
	Fixing	Threaded ring
	Threaded ring torque, max.	1.2 Nm
	Terminal on the rear	M12 4-pin A-coded
	PIN 1	Normally open contact 1
		Normally open contact 2

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	PIN 2	Normally open contact 2
	PIN 3	GND
	PIN 4	Normally open contact 1
>	electrical data	
	Rated insulation voltage	250 V
	Rated surge voltage	2,500 V
	Rated operating voltage	35 V (AC-15)
		35 V (DC-13)
	Operating voltage of the luminous	22 V
	element, min.	
	Operating voltage of the luminous	26 V
	element, max.	
	Rated voltage, min.	1 V
	Rated voltage, max.	32 V
	Operating current of the luminous	25 mA
	element, max.	
	Rated current, max.	0.1 A
	Power loss	0.00080 W
	Overvoltage category	2
	Kind of short circuit protective	fuse 250 V / 0,1 A / 1,5 kA gG quick
	device	
	Conditional short circuit current	1,000 A

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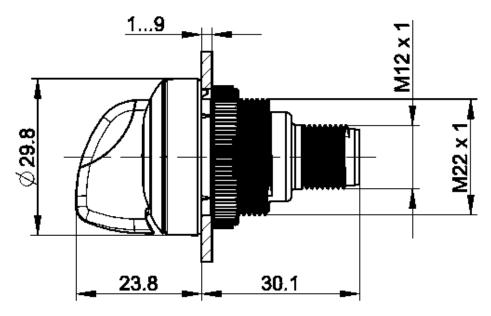


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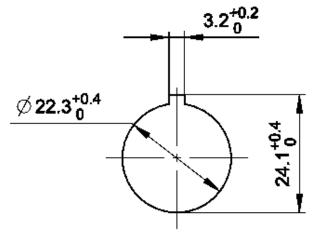


drawings

Dimensioned drawing



Mounting hole drawing



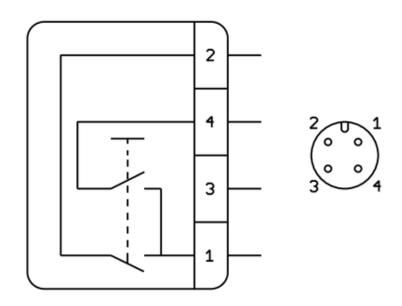
acc. to IEC 60947-5-1

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Schematic diagram



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