

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 8-pin A-coded, frontring black, 1 x 90°, 1 x 40°, latching / momentary



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	black	
Luminous element color	white	
Collar shape	round	
Operating temperature, min.	-40 °C	
Operating temperature, max.	85 °C	

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Storage temperature, min40 °CStorage temperature, max.90 °CilluminatedYesLuminous elementsLEDPackagingBoxPackaging unit2 pcs.net weight16.5 gOperating life200,000 cyclesB10250,000 cyclesDegree of protection, front side, according to DIN EN 60529IP65Degree of protection, rear side, according to DIN EN 60529IP65UL Enclosure Type Rating front sidetype 4X indoorEnvironment resistanceIEC 60068-2-14 IEC 60068-2-30 IEC 60068-2-78Shock resistance according to standard30 g at 11 ms amplitude semi-sinusoidal standardshock resistance according to standard5 g at 10500 Hzoscillation restistance according to standard IEC 60068-2-65 g at 10500 HzMOQ order2 pcs.Pollution degree acc. to DIN EN Pollution degree 261010-1 RoHS compliantYes			10.00
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61010-1		MOQ order	2 pcs.
RoHS compliant Yes		-	Pollution degree 2
		RoHS compliant	Yes
REACH compliant Yes		REACH compliant	Yes
> mounting diameters	>	mounting diameters	
Outside dimension, length 29.8 mm		Outside dimension, length	29.8 mm
Outside dimension, width 29.8 mm		Outside dimension, width	29.8 mm
Outside dimension, height 53.9 mm		Outside dimension, height	53.9 mm
Mounting hole 22.3 mm		Mounting hole	22.3 mm
Mounting depth 30.1 mm		Mounting depth	30.1 mm
Installation height 23.8 mm		Installation height	23.8 mm
Grid, min. 30 mm		Grid, min.	30 mm
> mechanical data	>	mechanical data	
Actuation function latching / momentary		Actuation function	latching / momentary
Resistance to force on the side 300 N		Resistance to force on the side	300 N
Contact function 2 NO		Contact function	2 NO
Contact material Gold		Contact material	Gold
Rotating angle 1 x 90°, 1 x 40°		Rotating angle	1 x 90°, 1 x 40°
Fixing Threaded ring		Fixing	Threaded ring
Threaded ring torque, max. 1.2 Nm		Threaded ring torque, max.	1.2 Nm
Terminal on the rear M12 8-pin A-coded		Terminal on the rear	M12 8-pin A-coded

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	PIN 1	Normally open contact 1
		Normally open contact 2
	PIN 2	Normally open contact 2
	PIN 3	GND
	PIN 4	Normally open contact 1
	PIN 5	LED +
>	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
	Voltage type	DC
	Rated operating voltage	1-32 V
	Operating current of the luminous	25 mA
	element, max.	
	Rated current, max.	0.1 A
	Power loss	0.70080 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

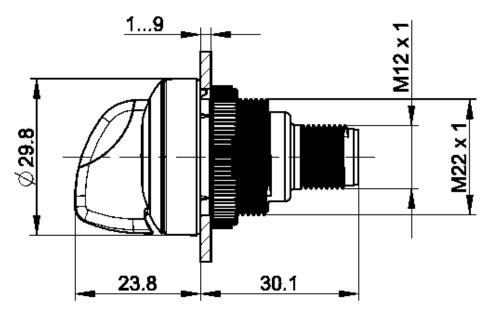
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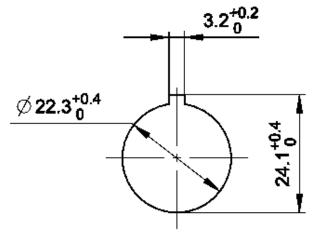


drawings

Dimensioned drawing



Mounting hole drawing



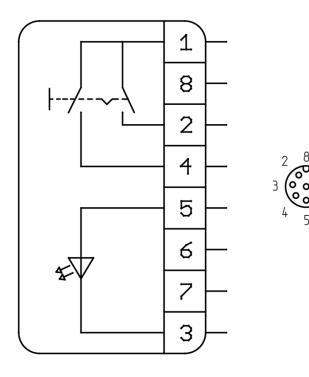
acc. to IEC 60947-5-1

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Schematic diagram



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