RAMO 30 K, M12, round collar, 2 NO, Gold, M12 4-pin A-coded, frontring stainless steel, 1 x 40°, momentary contact function, key removal position 0



fields of application

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

special features

- Precise haptics
- Safe gold contacts
- Simple M12 plug&play connection
- Protected contacts due to sealed housing

description

The locking systems we use were created according to the DIN EN 1303 standard by well-known lock manufacturers. They are open, mechanical systems which, depending on the environmental conditions, require occasional maintenance (e.g. greasing & oiling) by the machine or system operator.

RAMO K key switches offer a solution for every application thanks to a wide variety of contact functions, rotation angles, actuation functions, trigger positions and closures.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
Color	black
Collar color	black
Front ring color	stainless steel
Collar shape	round
Operating temperature, min.	-40 °C
Operating temperature, max.	85 °C

direct links

- RAFI eCatalog

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Storage temperature, min.	-40 °C
Storage temperature, max.	90 °C
illuminated	No
Packaging	Box
Packaging unit	2 pcs.
net weight	55.5 g
Operating life	300,000 cycles
B10	429,962 cycles
Degree of protection, front side, according to DIN EN 60529	IP65
Degree of protection, rear side, according to DIN EN 60529	IP65
UL Enclosure Type Rating front side	type 4X indoor
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 standard	IEC 60068-2-11
Impact resistance IK	05 side 04 frontal
oscillation restistance according to standard IEC 60068-2-6	5 g at 10...500 Hz
MOQ order	2 pcs.
Pollution degree acc. to DIN EN 61010-1	Pollution degree 2
RoHS compliant	Yes
REACH compliant	Yes

mounting diameters

Outside dimension, length	34.5 mm
Outside dimension, width	34.5 mm
Outside dimension, height	75.1 mm
Mounting hole	30.3 mm
Mounting depth	36.3 mm
Installation height	13.7 mm
Grid, min.	35 mm

mechanical data

Actuation function	momentary contact function
Operating force, max.	1.3 N
Resistance to force on the side	300 N
Contact function	2 NO
Contact material	Gold
Locking position	001
Key removal position	0
Rotating angle	1 x 40°
Fixing	Threaded ring

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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
PIN 2	Normally open contact 2
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)
Rated voltage, min.	1 V
Rated voltage, max.	32 V
Voltage type	DC
Rated operating current	0.1 A
Rated operating voltage	1-32 V
Rated current, max.	0.1 A
Power loss	0.00080 W
Overvoltage category	2
Kind of short circuit protective device	fuse 250 V / 0,1 A / 1,5 kA gG quick
Conditional short circuit current	1,000 A

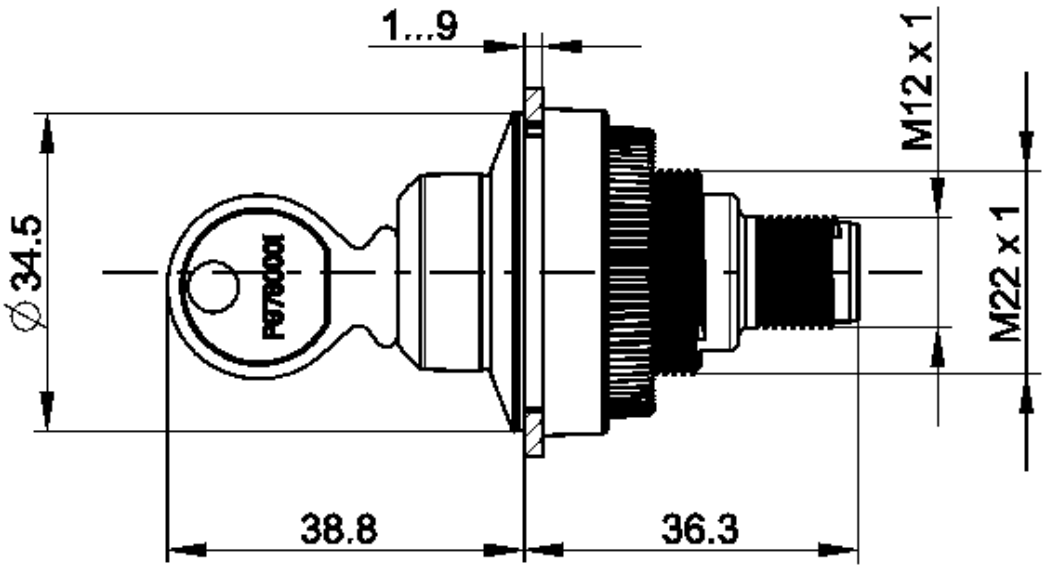
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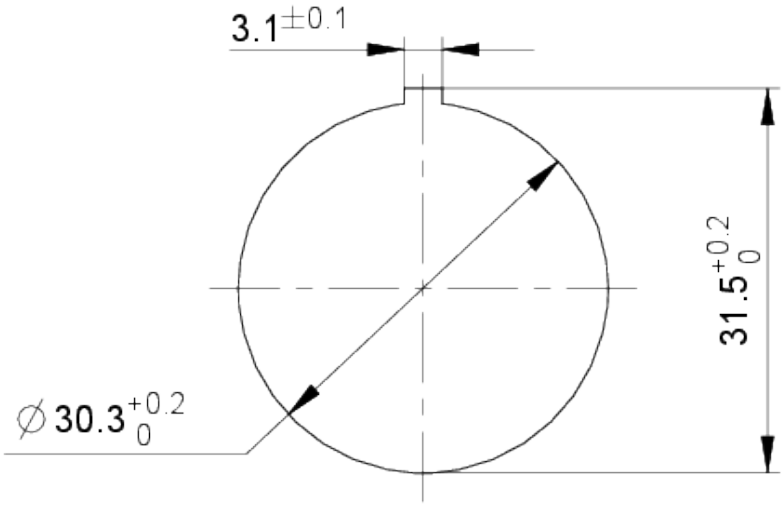
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drawings

Dimensioned drawing



Mounting hole drawing

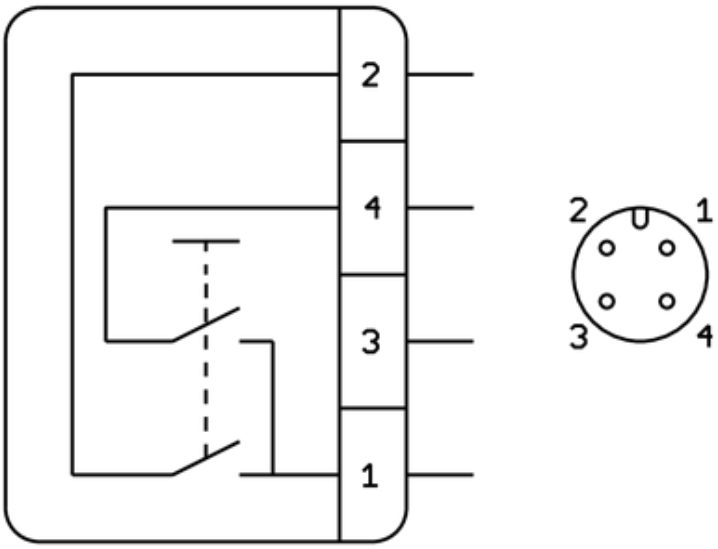


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Schematic diagram



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