

RAMO 30 K, M12, round collar, 2 NO, Gold, M12 4-pin A-coded, frontring stainless steel, 2 x 90°, latching, key removal position 0+1+2



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 nο

Color black Collar color black

Front ring color stainless steel

Collar shape round Operating temperature, min. -40 °C 85 °C Operating temperature, max.

direct links

> RAFI eCatalog

The information in this data sheet only contains general descriptions and / or performance features, which may not apply precisely as described to the respective application, and which my change due to further product enhancements. The technical data, illustrations and other information about our products are the mere results of individual technical testing. These descriptions and other product features are only binding if they expressly agreed upon at the time of the conclusion of a binding contract. In all other cases, we reserve the right to make technical changes as well as changes of availability. Pictures and other graphic illustrations are approximations only. All product names may be trademarks or brand names of the RAFI Group or any other sub-supplier of RAFI. The use of such by any third parties for their own purposes may infringe the rights of the respective entity holding those rights. date: Feb 21, 2025 page: 1/5

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-40 °C Storage temperature, min. Storage temperature, max. 90 °C illuminated No Packaging Box Packaging unit 2 pcs. net weight 55.5 g

Operating life 50,000 cycles B10 62,627 cycles

Degree of protection, front side,

according to DIN EN 60529

Degree of protection, rear side, IP65

according to DIN EN 60529

UL Enclosure Type Rating front

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

Salt-spray resistance according to

standard

05 side 04 frontal

2 pcs.

IP65

oscillation restistance according

to standard IEC 60068-2-6

Impact resistance IK

MOQ order

Pollution degree acc. to DIN EN

61010-1

Pollution degree 2

5 g at 10...500 Hz

IEC 60068-2-11

30 g at 11 ms amplitude semi-sinusoidal

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 latching Operating force, max. 1.3 N Resistance to force on the side 300 N Contact function 2 NO Gold Contact material Locking position 001 Key removal position 0+1+2Rotating angle 2 x 90° 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)

1 V Rated voltage, min. Rated voltage, max. 32 V DC Voltage type 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

Kind of short circuit protective

device

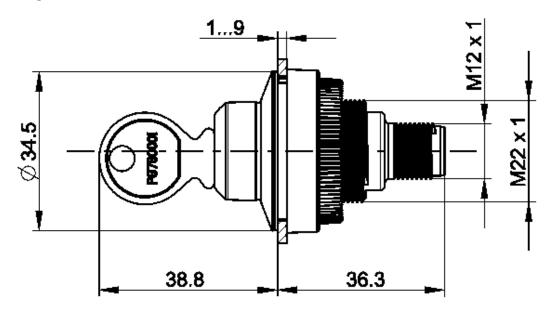
Conditional short circuit current 1,000 A

fuse 250 V / 0,1 A / 1,5 kA gG quick

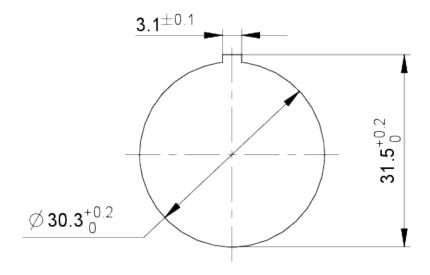


drawings

Dimensioned drawing



Mounting hole drawing





Schematic diagram

