

# RAMO 30 S, M12, round collar, 1 NO, Gold, M12 4-pin A-coded, frontring stainless steel, 1 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

#### special features

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











# 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

/	g	e	n	е	ra	11

Potential free yes Color black

Collar color black

Front ring color stainless steel

Collar shape round -40 °C Operating temperature, min. Operating temperature, max. 85 °C -40 °C Storage temperature, min. 90 °C Storage temperature, max. illuminated Yes

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

88276 Berg / Ravensburg Germany www.rafi-group.com info.headquarters@rafi-group.com

Ravensburger Str. 128-134

RAFI GmbH & Co. KG

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: Aug 31, 2024 page: 1/5



Packaging Box
Packaging unit 2 pcs.
net weight 26.6 g

Operating life 200,000 cycles B10 250,000 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

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 01 side

08 frontal

oscillation restistance according

to standard IEC 60068-2-6

2 pcs.

Pollution degree acc. to DIN EN

Pollution degree 2

5 g at 10...500 Hz

61010-1

MOQ order

RoHS compliant Yes
REACH compliant Yes

> mounting diameters

Outside dimension, length 34.5 mm
Outside dimension, width 34.5 mm
Outside dimension, height 53.9 mm
Mounting hole 30.3 mm
Mounting depth 36.3 mm
Installation height 17.6 mm
Grid, min. 35 mm

> mechanical data

Actuation function momentary contact function

Resistance to force on the side 300 NContact function 1 NOContact material 60000Rotating angle  $1 \times 40^{\circ}$ 

Fixing Threaded ring

Threaded ring torque, max. 1.2 Nm

Terminal on the rear M12 4-pin A-coded

PIN 1 Normally open contact 2

PIN 2 LED + PIN 3 GND

PIN 4 Normally open contact 1

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**: Aug 31, 2024 **page**: 2/5

RAFI GmbH & Co. KG

Ravensburger Str. 128-134 88276 Berg / Ravensburg Germany www.rafi-group.com, info.headquarters@rafi-group.com



#### > electrical data

Rated insulation voltage 250 V
Rated surge voltage 2,500 V
Rated operating voltage 35 V (AC-15)

35 V (DC-13)

22 V

Operating voltage of the luminous

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 current 0.1 A
Rated operating voltage 1-32 V
Operating current of the luminous 25 mA

element, max.

Rated current, max. 0.1 A

Power loss 0.00040 W

Overvoltage category 2

Kind of short circuit protective fuse 250 V / 0,1 A / 1,5 kA gG quick

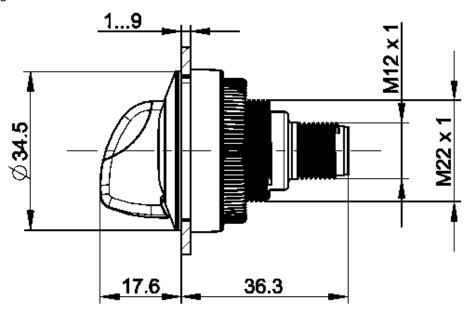
device

Conditional short circuit current 1,000 A

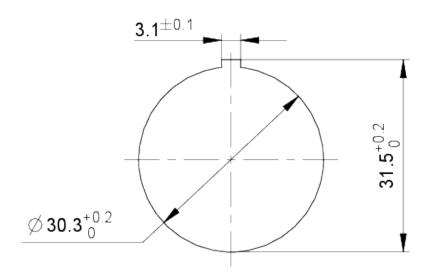


## drawings

#### **Dimensioned drawing**



#### Mounting hole drawing





#### Schematic diagram

