

# RAMO 22 I, M12, round collar, lamp white, bezel red, M12 4-pin A-coded



#### fields of application

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

#### special features

- > Energy-efficient and bright LED signal lamp
- > 180° field of vision
- > Single-piece mono-housing
- Unique series with easy Plug&Play connection
- > Completely tailored design fits the RAFIX range of control components
- > Installation size: 22.3 mm
- > Available in a large range of colors



## description

RAMO I signal lamps extend the range with a bright, energy-efficient signal lamp. The concave bezel means the reflected beam angle and angle of vision are more than 180°. It also provides a different look to the RAMO T pushbuttons. The signal lamp is available in five colors. Just like all RAMO actuators, connection is simple using Plug&Play and without any manual wiring – with M12 sensor cables.

With the RAMO I FLEXLAB signal lamps an individual configuration of the lens color and labeling is possible by the customer. This allows maximum flexibility. Lenses are additionally required as accessories.

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

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#### > general

Color black
Bezel color red

Property of bezel / mushroom translucent

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.

RAFI GmbH & Co. KG



direct links

> RAFI eCatalog

Collar color black

Luminous element color white

Collar shape round

Operating temperature, min.  $-40 \,^{\circ}\text{C}$ Operating temperature, max.  $85 \,^{\circ}\text{C}$ Storage temperature, min.  $-40 \,^{\circ}\text{C}$ 

Storage temperature, min. -40 °C

Storage temperature, max. 85 °C

illuminated Yes

Luminous elements LED

Packaging Box

Packaging unit 10 pcs.

net weight 12 g

Degree of protection, front side, according to DIN EN 60529 IP67

IP69

Degree of protection, rear side, according to DIN EN 60529 IP67

UL Enclosure Type Rating front

side

type 4X indoor

Environment resistance IEC 60068-2-14

IEC 60068-2-30 IEC 60068-2-78

Salt-spray resistance according to

standard

IEC 60068-2-11

Impact resistance IK 04 frontal MOQ order 10 pcs.

Pollution degree acc. to DIN EN

61010-1

Pollution degree 2

RoHS compliant Yes
REACH compliant Yes

> mounting diameters

Outside dimension, length 29.8 mm Outside dimension, width 29.8 mm Outside dimension, height 41.8 mm Mounting hole 22.3 mm Mounting depth 30.2 mm Installation height 11.6 mm Grid, min. 30 mm Collar dimension 29.8 mm

> mechanical data

Resistance to force on the side 300 N

Fixing Threaded ring

Threaded ring torque, max. 1.2 Nm

Terminal on the rear M12 4-pin A-coded

PIN 2 LED + GND

## > electrical data

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Rated insulation voltage 250 V Rated surge voltage 800 V

Rated operating voltage DC 20 - 28 V

Operating voltage of the luminous

element, min.

Operating voltage of the luminous 28 V

element, max.

Voltage type DC
Rated operating current 0.01 A
Rated operating voltage 20-28 V
Operating current of the luminous 8 mA

element, min.

Operating current of the luminous 12 mA

element, max.

Power loss 0.70000 W

Overvoltage category 2

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

20 V

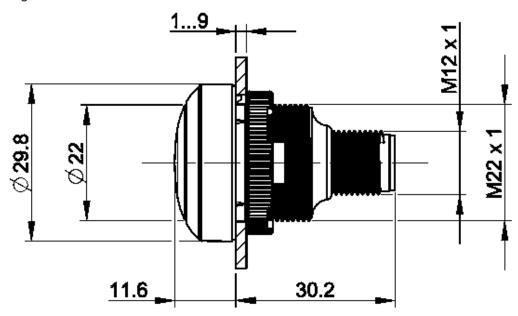
device

Conditional short circuit current 1,000 A

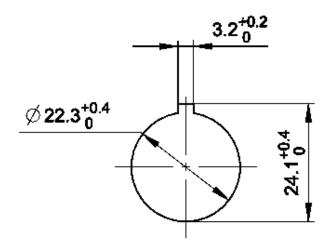


# drawings

## **Dimensioned drawing**



### Mounting hole drawing



acc. to IEC 60947-5-1



#### Schematic diagram

