

RAMO 22 I, M12, round collar, lamp white, bezel yellow, 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

| Bezel color | | |
|------------------------------|-------------|--|
| | black | |
| | yellow | |
| Property of bezel / mushroom | translucent | |

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1.10.071.001/0441

| | Collar color | black |
|---|---------------------------------------------|--------------------|
| | Luminous element color | white |
| | | round |
| | Collar shape | -40 °C |
| | Operating temperature, min. | -40 °C 85 °C |
| | Operating temperature, max. | |
| | 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, | IP66 |
| | according to DIN EN 60529 | IP67 |
| | | IP69 |
| | Degree of protection, rear side, | IP66 |
| | 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 |
| | | Yes |
| | RoHS compliant | Yes |
| 、 | REACH compliant mounting diameters | Tes |
| > | - | 20.0 |
| | 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 + |
| | PIN 3 | GND |
| \ | ala at fact data | |

> electrical data

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direct links

> RAFI eCatalog

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| Rated surge voltage800 VRated operating voltageDC 20 - 28 VOperating voltage of the luminous element, min.20 VOperating voltage of the luminous element, max.28 VVoltage typeDCRated operating current0.01 ARated operating voltage20-28 VOperating current of the luminous element, min.12 mAOperating current of the luminous element, min.12 mAOperating current of the luminous element, min.0.70000 WOperating current of the luminous element, max.12 mAPower loss0.70000 WOvervoltage category2Kind of short circuit protective device1,000 A | Rated insulation voltage | 250 V |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------|
| Operating voltage of the luminous element, min.20 VOperating voltage of the luminous element, max.28 VVoltage typeDCRated operating current0.01 ARated operating voltage20-28 VOperating current of the luminous element, min.8 mAOperating current of the luminous element, max.12 mAPower loss0.70000 WOvervoltage category2Kind of short circuit protective devicefuse 250 V / 0,1 A / 1,5 kA gG quick | Rated surge voltage | 800 V |
| 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 device | Rated operating voltage | DC 20 - 28 V |
| Operating voltage of the luminous element, max.28 VVoltage typeDCRated operating current0.01 ARated operating voltage20-28 VOperating current of the luminous element, min.8 mAOperating current of the luminous element, max.12 mAPower loss0.70000 WOvervoltage category2Kind of short circuit protective devicefuse 250 V / 0,1 A / 1,5 kA gG quick | | 20 V |
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| Rated operating current0.01 ARated operating voltage20-28 VOperating current of the luminous8 mAelement, min.12 mAOperating current of the luminous12 mAelement, max.0.70000 WOvervoltage category2Kind of short circuit protectivefuse 250 V / 0,1 A / 1,5 kA gG quickdevice0.000 W | element, max. | |
| Rated operating voltage20-28 VOperating current of the luminous8 mAelement, min.12 mAOperating current of the luminous12 mAelement, max.0.70000 WPower loss0.70000 WOvervoltage category2Kind of short circuit protectivefuse 250 V / 0,1 A / 1,5 kA gG quickdevice10 m m m m m m m m m m m m m m m m m m m | Voltage type | DC |
| Operating current of the luminous 8 mA element, min. 12 mA operating current of the luminous 12 mA element, max. 0.70000 W Overvoltage category 2 Kind of short circuit protective fuse 250 V / 0,1 A / 1,5 kA gG quick device 10 m m m m m m m m m m m m m m m m m m m | Rated operating current | 0.01 A |
| 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 device | Rated operating voltage | 20-28 V |
| Operating current of the luminous element, max.12 mAPower loss0.70000 WOvervoltage category2Kind of short circuit protective devicefuse 250 V / 0,1 A / 1,5 kA gG quick | Operating current of the luminous | 8 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 device | element, min. | |
| Power loss0.70000 WOvervoltage category2Kind of short circuit protective devicefuse 250 V / 0,1 A / 1,5 kA gG quick | Operating current of the luminous | 12 mA |
| Overvoltage category 2 Kind of short circuit protective fuse 250 V / 0,1 A / 1,5 kA gG quick device | element, max. | |
| Kind of short circuit protectivefuse 250 V / 0,1 A / 1,5 kA gG quickdevice | Power loss | 0.70000 W |
| device | Overvoltage category | 2 |
| Conditional short circuit current 1,000 A | 1 | fuse 250 V / 0,1 A / 1,5 kA gG quick |
| | 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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