

ITEM 093166 GLBF02R12-502-MC2050

| Description | Technical data | Accessories | Downloads |
|-------------|----------------|-------------|-----------|
|-------------|----------------|-------------|-----------|



Features

- › Plunger spacing 12 or 16 mm
- › Horizontal housing
- › Degree of protection IP67 according to IEC 60529
- › LED function display optional

Switching elements

ES 502 E Snap-action switching contact 1 NC + 1 NO

ES 508 Slow-action switching contact 1 NC \rightarrow

ES 514 Snap-action switching contact 1 NC \rightarrow + 1 NO

On the usage of safety switching elements, the dog distance (4.0.5) must be maintained to achieve the positively driven travel. The dogs must be positively mounted according to EN 1088, i.e. riveted, welded or secured in some other way against becoming loose.

LED function display (optional)

Function displays are available for the following voltage ranges (see accessories)

LE060 12 ... 60 V AC/DC

LE110 110 V AC \pm 15%

Approvals



Mechanical values and environment

| | |
|------------------------------|-------------------------------|
| Contact bounce time | < 3ms |
| Contact closing time | < 4ms |
| Design | Horizontal |
| Housing material | Sand-cast aluminum, anodized |
| Weight | |
| | Net 1,4 kg |
| Ambient temperature | -5 ... 80 °C |
| Degree of protection | IP67 |
| Mechanical life | 30 x 10 ⁶ |
| Contact material | Silver alloy, gold flashed |
| Switching principle | Snap-action switching contact |
| Plunger spacing | 12 mm |
| Installation position | Any |
| Number of switching elements | 2 |
| Number of NC contacts | 2 |
| Number of NO contacts | 2 |
| Connection | 3 x M25 x 1.5 |
| Approach speed | 0,01 ... 80 m/min |
| Actuating element | Roller plunger ^[1] |
| Roller diameter | 8 mm |
| Actuating force | min.20 N |
| Operating point accuracy | ± 0.01 ^[2] |

Electrical connection ratings

| | |
|---|------------------|
| Rated thermal current I _{th} | 8 A |
| Utilization category according to EN 60947-5-1 | |
| | AC-15 6A 230V |
| | DC-13 6A 24V |
| | AC-12 8 A, 250 V |
| Short circuit protection according to IEC 60269-1 | |
| | (Fuse) 8A gG |
| Rated insulation voltage U _i | 250 V |
| Rated impulse withstand voltage U _{imp} | 2,5 kV |

| | |
|--------------------------|------------------------------|
| Switching current | Min. at DC 12V min.10 mA |
| Connection cross-section | 0,34 ... 1,5 mm ² |

Miscellaneous

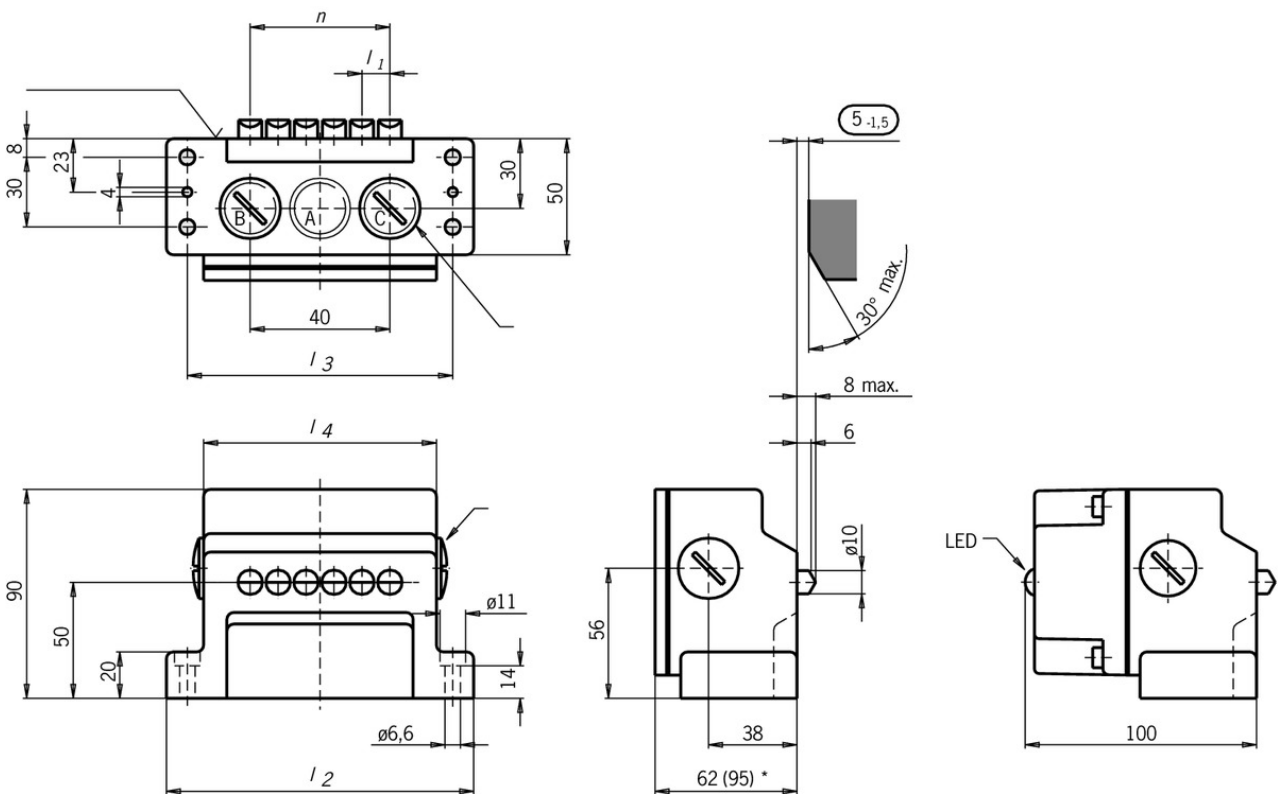
| | | |
|----------|-------|-----|
| C number | C2050 | [3] |
|----------|-------|-----|

[1] Plain bearing





[2] The reproducible switching point accuracy refers to the axial travel of the plunger after the switching element ES 502 E has been run-in with approx. 2000 operating cycles.

[3] Additional mechanical protection of the plunger with metal perforated rail

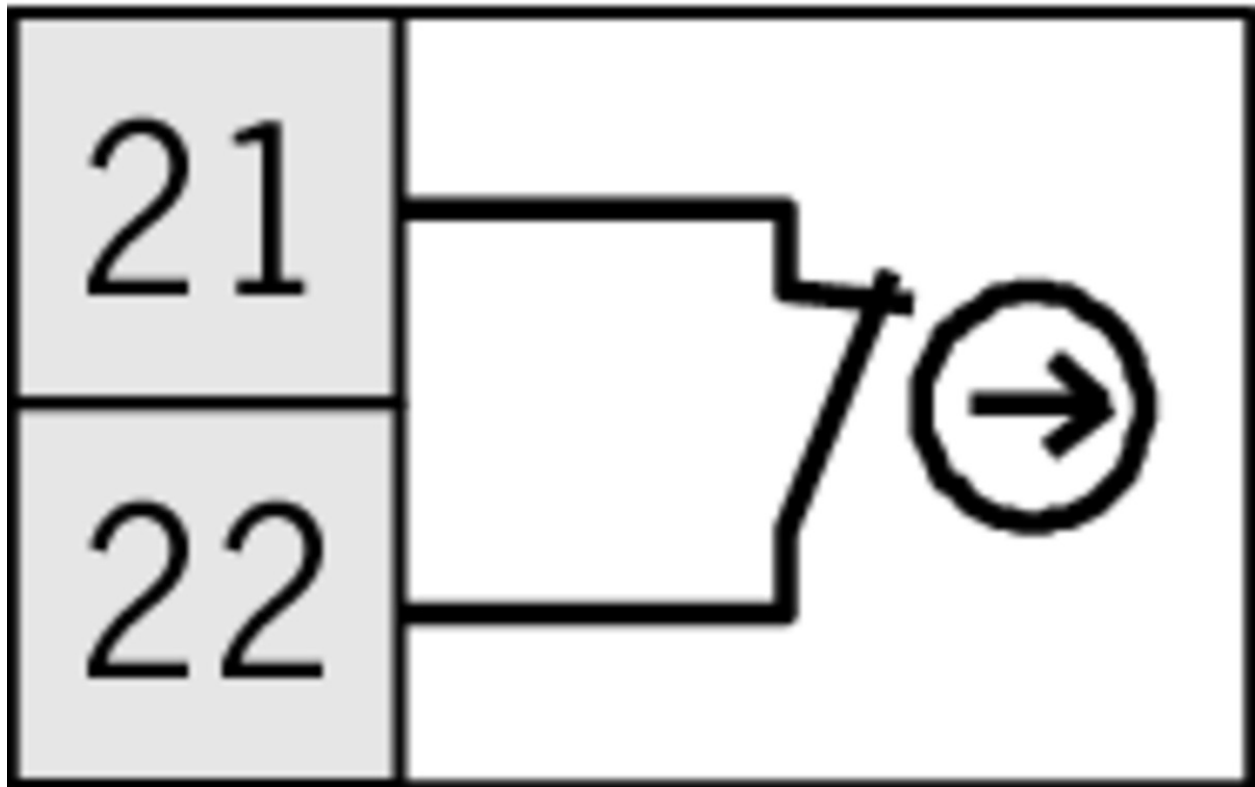
Dimension drawing



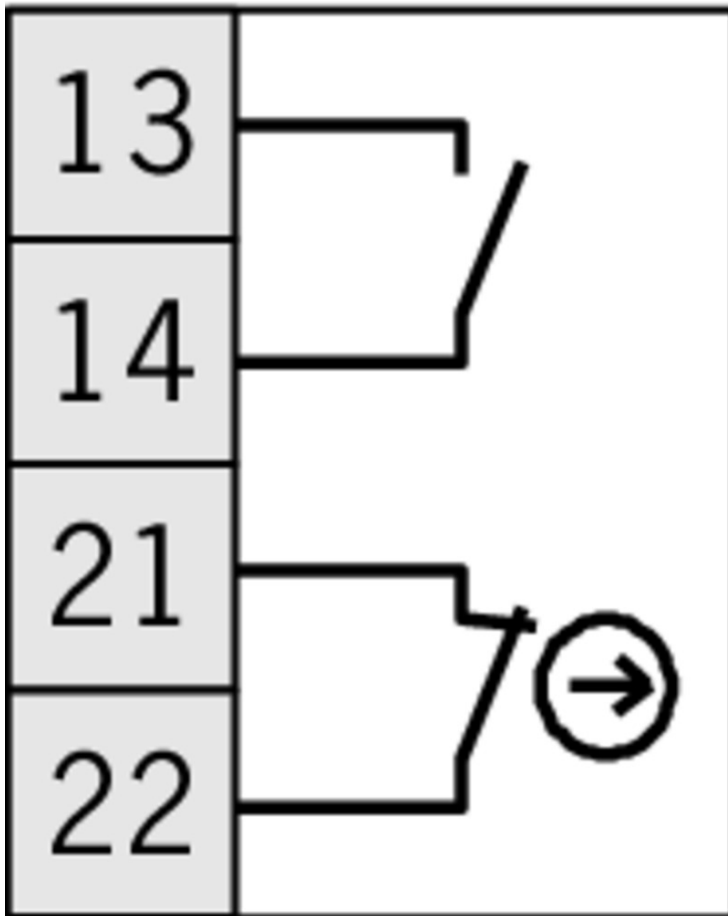
ES 502 E

| | |
|----|---|
| 13 |  |
| 14 |  |
| 21 |  |
| 22 |  |

ES 508








ES 514



Instructions

 Betriebsanleitung Präzisions-Reihengrenztaster RG, GS, GL 12/16 mm

| | Doc. no. | Version | Language | Download |
|--|----------|----------|---|--|
| Betriebsanleitung Präzisions-Reihengrenztaster RG, GS, GL 12/16 mm | 032307 | 07-07/16 |  |  1.4 MB |
| Mode d'emploi Boîtiers multipistes de précision RG, GS, GL 12/16 mm | | |  | |
| Istruzioni di impiego Finecorsa multipli di precisione RG, GS, GL12/16 mm | | |  | |
| Operating Instructions Precision Multiple Limit Switches RG, GS, GL12/16 mm | | |  | |