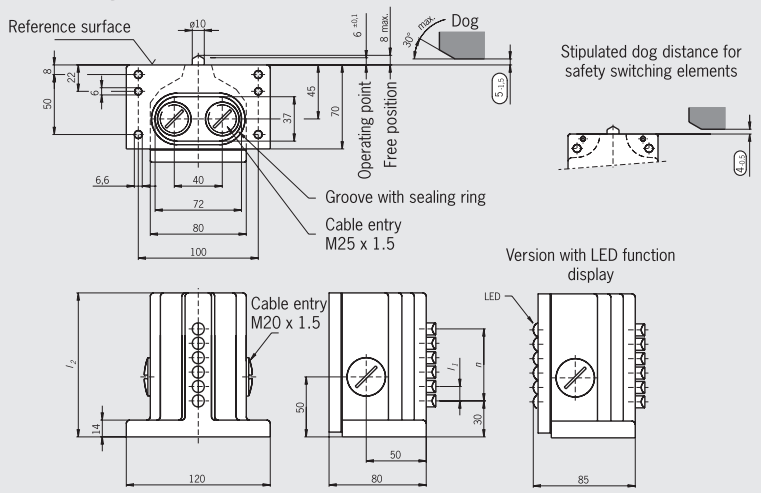
Series RGBF... 12/16 mm mechanical

- **Plunger spacing 12 or 16 mm**
- **Upright housing according to DIN 43697**
- **Degree of protection IP67 according to IEC 60529**
- **LED function display optional**

Series RGBF... mechanical
Plunger spacing 12 or 16 mm

Dimension drawing illustration with chisel plunger, plunger type dependent on version



Switching elements

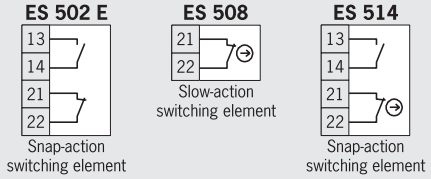
- **ES 502 E** Snap-action switching element 1 NC + 1 NO
- **ES 508** Slow-action switching element 1 NC ⊖
- **ES 514** Snap-action switching element 1 NC ⊖ +1 NO

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 page 27):

- **LE024ge** 24 V DC (for ES 514)
- **LE060** 12 ... 60 V AC/DC
- **LE110** 110 V AC ±15%
- **LE220** 220 V AC ±15%

Switching elements



Plunger types	D Chisel	R Roller (plain bearing)	B Roller (ball bearing)	K 4) Ball 3)	W 4 Dome	
Operating point accuracy 1)	± 0.002	± 0.01	± 0.01	± 0.01	± 0.002	mm
Approach speed max. 2)	40	80	120	10	10	m/min

1) The reproducible operating 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
2) The approach speed given applies in conjunction with EUCHNER trip dogs according to DIN 69639. Special versions of roller plungers for high usage on request
3) For safety reasons, multiple limit switches with switching elements ES 508 and ES 514 are not available with ball plungers
4) Plunger type on request

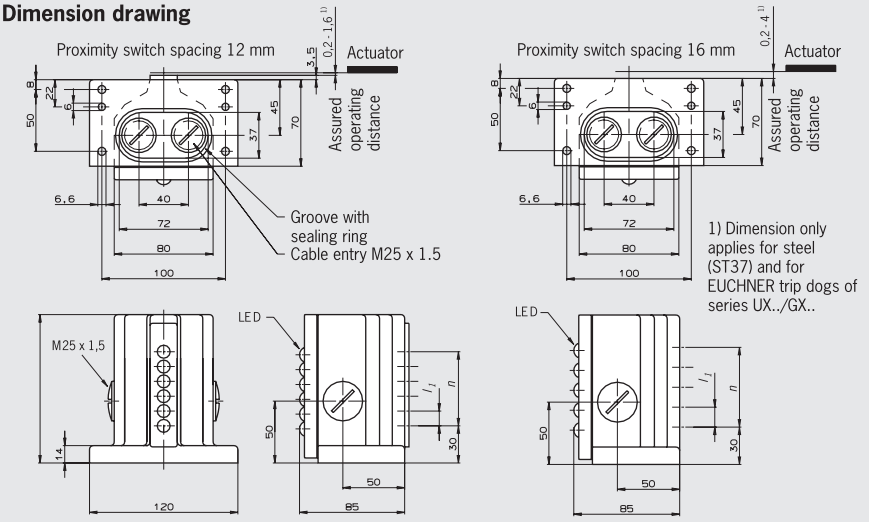
n Number of plungers/ proximity switches	Plunger/proximity switch spacing l_1 = 12 l_2	Housing material	l_1 = 16 l_2	Housing material
2	70	Die-cast aluminum, anodized	70	Die-cast aluminum, anodized
3	80		90	
4	90		105	
5	105		120	
6	120		140	
8	140		170	
10	170		200	Sand-cast aluminum, anodized
12	200	Sand-cast aluminum, anodized	240	
14	240		-	-
16	240		-	-

Series RGBF... 12/16 mm inductive

- **Proximity switch spacing 12 or 16 mm**
- **Upright housing according to DIN 43697**
- **Degree of protection IP67 according to IEC 60529**
- **LED function display**

Series RGBF... inductive
Proximity switch spacing 12 or 16 mm

Dimension drawing

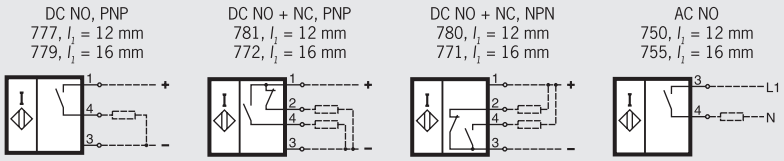


Rated operating distance
With 12 mm proximity switch spacing, the rated operating distance is 2 mm, with 16 mm proximity switch distance it is 5 mm.

Mixed contact assembly
On request, mixed assembly with electromechanical safety switching elements according to IEC 60947 is possible for 12 mm proximity switch spacing.

LED function display
DC and AC switching elements are equipped as standard with a function display on the switching element (yellow). The function display can be seen from the exterior.

Switching elements



Switching elements with 5 mm operating distance (16 mm proximity switch spacing) are supplied with two different oscillator frequencies to avoid mutual interference. Multiple limit switches must therefore be assembled alternately with these switching elements.

Further switching elements on request (see page 32/33)

Ordering code

	R	G	B	F						-				L	E					-	M
Mechanical																					
Inductive	R	G	B	F			X			-				L						-	M

Series

Number of plungers/proximity switches

Plunger type (only mechanical switch, e. g. **D** = chisel)

Plunger/proximity switch spacing (**12** or **16** mm)

Switching elements (e. g. ES **508** or **777**)

Visible LED (yellow) (on inductive switches)

LED function display (optional on mechanical switches, e. g. 12 ... 60 V AC/DC = **060**)

LED color; red standard (**rt**), others on request

Cable entry M25 x 1.5 (plug connector on request)

For technical data see page 30