RAFIX 16

RAFIX 16 control component range
- Panel cut-out acc. to IEC 60947: Ø 16,2 mm / Ø 22,3 mm / □ 23,1 mm
- 250 V / 6 A max.
- Degree pf protection: IP65 acc. to DIN EN 60529
- Contact blocks: Gold and silver contacts with quick-connect terminals 2.8 x 0.8 mm or screw terminals; Option: PCB plug-in socket
- 3 collar shapes RAFIX 16, 2 collar shapes RAFIX 16F
- The contact blocks snap directly onto the actuators without a coupling element and can be easily removed by turning = cost reducing assembly.
- All products are RoHS compliant.

The specified data apply only if actuators are combined with contact blocks and signal indicators with lamp sockets within the same product range.

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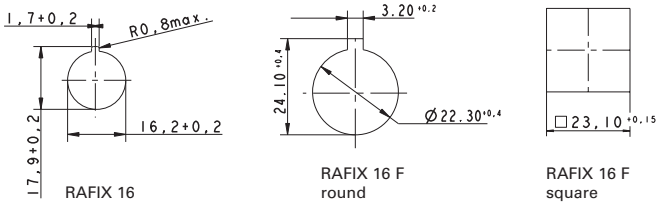
Control Components RAFIX 16

RAFIX 16 is a complete control component series and enables you to design attractive control panels with a minimum of space requirements and at the same time sufficiently large actuating areas.

RAFIX 16 F, round

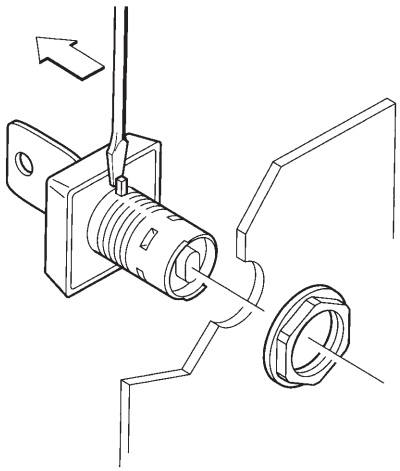
Actuators

Mounting hole according to IEC 60947



RAFIX 16 | RAFIX 16 F round | RAFIX 16 F square

– Locating lug (easily removable).
  The locating lug can be easily removed using a screwdriver.



– Degree of protection IP65 on frontside of the panel.
  This is achieved by a reliable, tried and tested special seal.

RAFIX 16 actuators
– Grid spacing 25 x 25 mm (RAFIX 16 F 30 x 30 mm)
– 7 mm height from front panel
  (RAFIX 16 F 1.9 mm)
– Three collar shapes, in black
  • Square
  • Round
  • Square, alignable in flush fitting rows, which avoids accumulation of dirt between the collars.

Contact blocks

– Contact blocks standard: for actuators with one-way operation
  • latching function
  • momentary function
– Contact blocks universal: for E-stop pushbuttons and for actuators with two-way operation, e. g. selector or keylock switches
  • momentary function

Contact material
– Silver contacts for mains voltage
– Gold contacts for electronic circuits

Illumination
– LED or wedge base lamp, socket W 2 x 4.6 d

Assembly
– Single-handed cost-effectiv assembly method
– Panel thickness 0.5 ... 5 mm for RAFIX 16
  (RAFIX 16 F 0.5 ... 3.5 mm)
– Fixing with hexagon nut
– Starting torque 1.2 Nm max.

Shock-resistance according to IEC 600 68-2-27
– Shock amplitude: ≤ 50 g
– Shock time: 11 ms
– Shock type: half sinusoidal

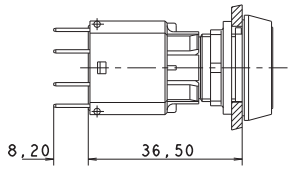
Environment conditions
– acc. to IEC 600 68-2, -14, -30, -33 and -78

Temperature range
– Operating temperature:
  non-illuminated: - 25 ... + 70 °C
  illuminated: - 25 ... + 55 °C (with LED)
– Storage temperature: - 40 ... + 85 °C

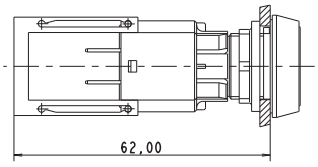
Dimensional Drawings

Actuator with contact block resp. signal indicator with lamp socket

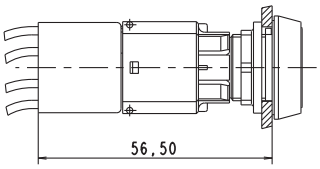
Contact block with quick-connect terminals and RAFIX 16 pushbutton



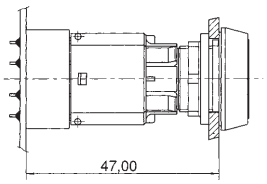
... with protection cage



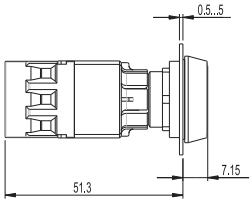
... with multipole connector



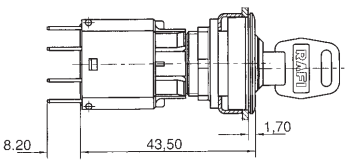
... with PCB plug-in socket

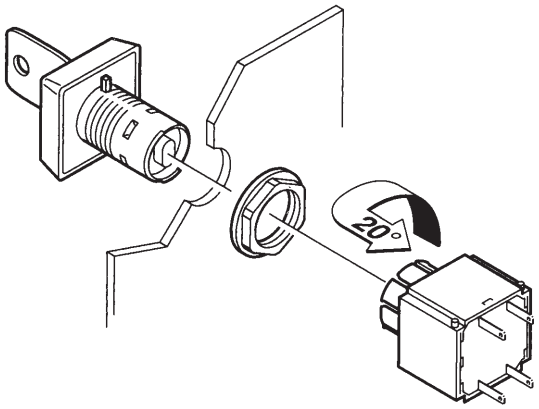


Contact block with screw terminals and RAFIX 16 pushbutton



Contact block with quick-connect terminals and RAFIX 16 F keylock switch





Assembly/Disassembly

Assembly

- Insert the actuator through the panel cut-out from the front.
- If there is no locating indent provided in the cut-out, first remove the locating lug using a screwdriver.
- Screw the hexagon nut onto the actuator or signal indicator from the rear and tighten it using a fixing spanner.
- Click the contact block onto the actuator from the rear.
- Install protection against accidental contact, if applicable.
- Install PCB if applicable.

With quick-connect terminals
Contact cables with quick connector

With screw terminals
Push in cables and fix by srewing

Disassembly

- Turn the contact block by approx. 20° to the left or right – the latches open.
- Pull the contact block off towards the rear.
- To dismount a PCB, pull the PCB with the soldered plug-in sockets off the mounted contact blocks.

Legending

- **Label holders**
  All elements can be labelled using a **separate label holder.** The label holder is mounted together with the actuator/signal indicator.

- **Non-illuminated pushbuttons and mushromm-headed pushbuttons**
  Can be **printed** or laser engraved.

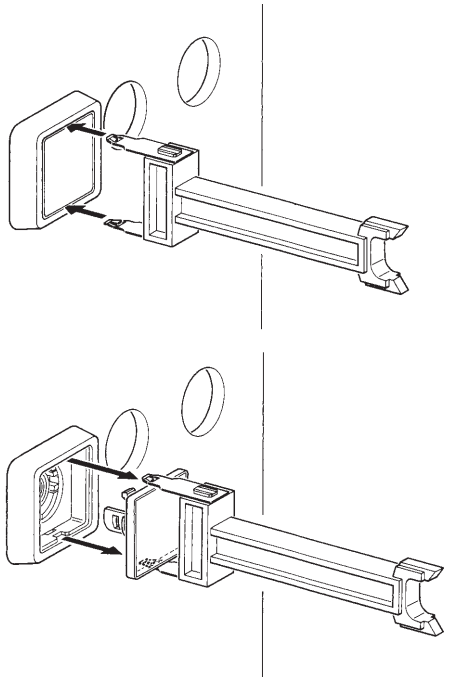
- **Legend inserts**
  All illuminated pushbuttons and the majority of the signal indicators can be **labelled by means of legend inserts**. The legend inserts are fitted between actuator body and lens and can be easily changed.

  Alternatively, the plungers can be printed directly. The mounted lens protects the printing against abrasion.

RAFI also provides custom legending. Price and delivery on request.

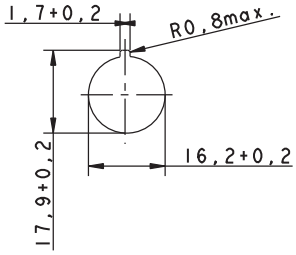
Lamp replacement from front

Use the disassembly tool to grasp the actuator body and pull it towards the front with the lens.
Alternatively, you can use a screwdriver in place of the disassembly tool. In this case, insert the screwdriver between actuator body and collar and carefully raise the actuator body.
Replace the lamp using a lamp extractor or a suitable insulation sleeve.



Lamp replacement from front

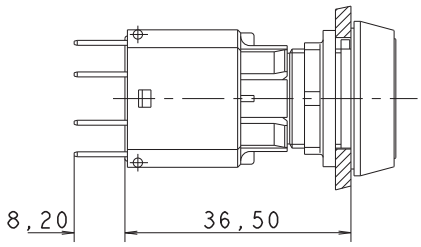
RAFIX 16 Pushbuttons



Panel cut-out

Technical Data

→ General information	
Actuator	see order block
Color of lens	see order block
Form of collar	see order block
→ Dimensions	
Collar dimensions	see order block
Overall height	see order block
Mounting depth	44.7 mm
Mounting hole	16.2 mm
Key grid	25 x 25 mm
→ Mechanical design	
Mounting	ring nut, max. 1.2 Nm
Contact function	according to contact block
Contact arrangement	according to contact block
Illumination	see order block
→ Mechanical characteristics	
Operating travel	3 mm
Robustness max.	100 N
→ Other specifications	
Operating life (operations)	2,000,000
Degree of protection from front side	IP65 (DIN EN 60529)
Operation temperature min.	-25 °C
Ambient temp. operating max. without lamp /LED	+70 °C
Ambient temp. operating max. with lamp /LED	+55 °C
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes



with contact block / lamp socket

Approvals

IEC 61058, 25T70 without lamp, 25T55 with lamp

C22.2 No. 14-M91

Accessories RAFIX 16 - Pushbutton

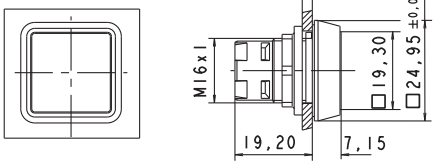
→ Description	Photo	Order no.	Additional accessories see page
RAFIX 16 - Contact blocks with gold contacts		-	2 - 62
RAFIX 16 - Contact blocks with silver contacts		-	2 - 67

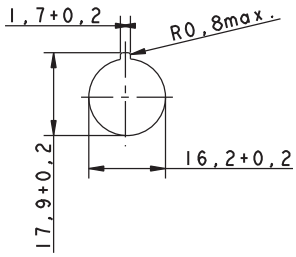
– Table (continued) –
Accessories RAFIX 16 - Pushbutton

➔	Description	Photo	Order no.	Additional accessories see page
	Socket W 2 x 4.6d, LED superbright		-	5 - 5
	Disassembly tool for LUMOTAST 25, RAFIX 16		5.05.800.042/0000	5 - 27
	Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 78, 5 - 26

RAFIX 16
Pushbutton, flush lens, square collar

Technical data see page 2 - 9





Panel cut-out

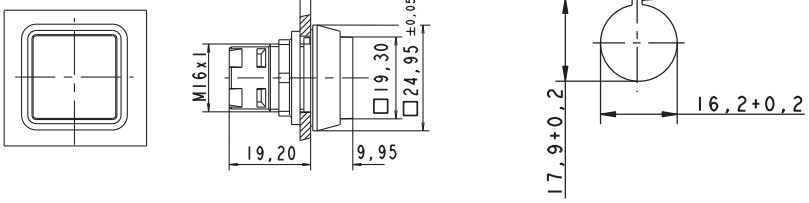
➔	Illumination	Color of lens	Order no. complete	Order no. single parts	
				Housing	Lens
	yes	transparent red	1.30.070.001/1306	1.30.070.501/0000	5.49.077.011/1306
	yes	transparent yellow	1.30.070.001/1403	1.30.070.501/0000	5.49.077.011/1403
	yes	transparent green	1.30.070.001/1505	1.30.070.501/0000	5.49.077.011/1505
	yes	transparent blue	1.30.070.001/1607	1.30.070.501/0000	5.49.077.011/1607
	yes	transparent colorless	1.30.070.001/1002	1.30.070.501/0000	5.49.077.011/1002
	no	opaque red	1.30.070.251/0300	1.30.070.501/0000	5.49.077.011/0313
	no	opaque yellow	1.30.070.251/0400	1.30.070.501/0000	5.49.077.011/0410
	no	opaque green	1.30.070.251/0500	1.30.070.501/0000	5.49.077.011/0518
	no	opaque blue	1.30.070.251/0600	1.30.070.501/0000	5.49.077.011/0612
	no	opaque white	1.30.070.251/0200	1.30.070.501/0000	5.49.077.011/0200
	no	opaque black	1.30.070.251/0100	1.30.070.501/0000	5.49.077.011/0104

For the „latching“ function, please use the standard contact block with „latching“ function.

Accessoires:
Legend insert, blank, use only for transparent lenses: 5.70.635.000/2000
RAFIX 16 - Label holder, flush, for square collar: see page 2 - 80

RAFIX 16
Pushbutton, protruding lens, square collar

Technical data see page 2 - 9



Panel cut-out

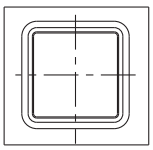
→	Illumination	Color of lens	Order no. complete	Order no. single parts	
				Housing	Lens
	yes	transparent red	1.30.070.051/1306	1.30.070.551/0000	5.49.077.012/1306
	yes	transparent yellow	1.30.070.051/1403	1.30.070.551/0000	5.49.077.012/1403
	yes	transparent green	1.30.070.051/1505	1.30.070.551/0000	5.49.077.012/1505
	yes	transparent blue	1.30.070.051/1607	1.30.070.551/0000	5.49.077.012/1607
	yes	transparent colorless	1.30.070.051/1002	1.30.070.551/0000	5.49.077.012/1002
	no	opaque red	1.30.070.301/0300	1.30.070.801/0000	5.46.657.442/0300
	no	opaque black	1.30.070.301/0100	1.30.070.801/0000	5.46.657.442/0100

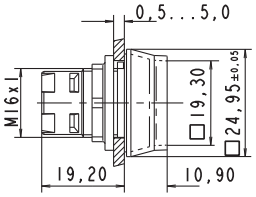
For the „latching“ function, please use the standard contact block with „latching“ function.

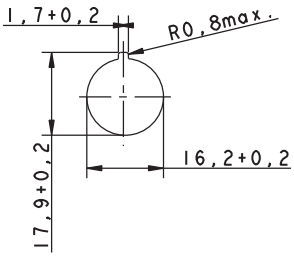
Accessoires:
Legend insert, blank, use only for transparent lenses: 5.70.635.000/2000
RAFIX 16 - Label holder, flush, for square collar: see page 2 - 80

RAFIX 16
Pushbutton, protruding collar, square collar

Technical data see page 2 - 9







Panel cut-out

→	Illumination	Color of lens	Order no. complete	Order no. single parts	
				Housing	Lens
	yes	transparent red	1.30.070.101/1306	1.30.070.601/0000	5.49.077.011/1306
	yes	transparent yellow	1.30.070.101/1403	1.30.070.601/0000	5.49.077.011/1403
	yes	transparent green	1.30.070.101/1505	1.30.070.601/0000	5.49.077.011/1505
	yes	transparent blue	1.30.070.101/1607	1.30.070.601/0000	5.49.077.011/1607
	yes	transparent colorless	1.30.070.101/1002	1.30.070.601/0000	5.49.077.011/1002

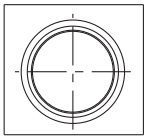
The protruding collar offers protection against inadvertent operation and thereby fulfils the safety requirements of various machinery manufacturers.

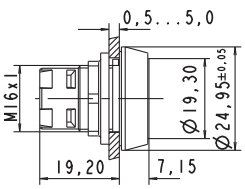
For the „latching“ function, please use the standard contact block with „latching“ function.

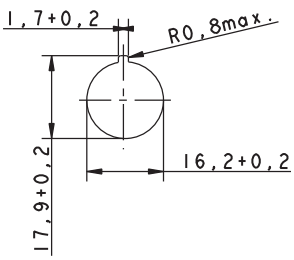
Accessoires:
Legend insert, blank, use only for transparent lenses: 5.70.635.000/2000
RAFIX 16 - Label holder, flush, for square collar: see page 2 - 80

RAFIX 16
Pushbutton, flush lens, round collar

Technical data see page 2 - 9







Panel cut-out

– Table (continued) –
RAFIX 16 - Pushbutton, flush lens, round collar

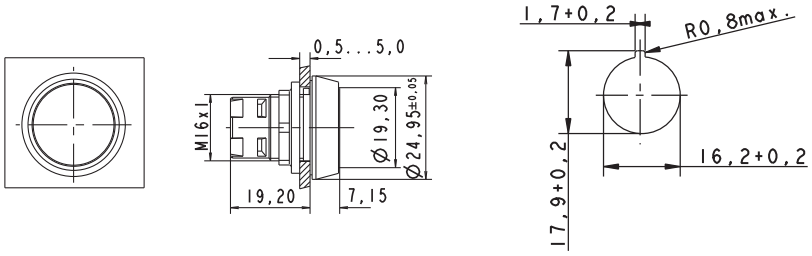
→	Illumination	Color of lens	Order no. complete	Order no. single parts	
				Housing	Lens
	yes	transparent red	1.30.070.021/1306	1.30.070.521/0000	5.49.259.017/1306
	yes	transparent yellow	1.30.070.021/1403	1.30.070.521/0000	5.49.259.017/1403
	yes	transparent green	1.30.070.021/1505	1.30.070.521/0000	5.49.259.017/1505
	yes	transparent blue	1.30.070.021/1607	1.30.070.521/0000	5.49.259.017/1607
	yes	transparent colorless	1.30.070.021/1002	1.30.070.521/0000	5.49.259.017/1002
	no	opaque red	1.30.070.271/0300	1.30.070.521/0000	5.49.259.017/0313
	no	opaque yellow	1.30.070.271/0400	1.30.070.521/0000	5.49.259.017/0410
	no	opaque green	1.30.070.271/0500	1.30.070.521/0000	5.49.259.017/0500
	no	opaque blue	1.30.070.271/0600	1.30.070.521/0000	5.49.259.017/0612
	no	opaque white	1.30.070.271/0200	1.30.070.521/0000	5.49.259.017/0200
	no	opaque black	1.30.070.271/0100	1.30.070.521/0000	5.49.259.017/0104

For the „latching“ function, please use the standard contact block with „latching“ function.

Accessoires:
Legend insert, blank, use only for transparent lenses: 5.70.637.000/2000
RAFIX 16 - Label holder, flush, for round collar: see page 2 - 80

RAFIX 16
Pushbutton IP66
with protective cap

Technical data see page 2 - 9



Panel cut-out

→	Illumination	Color of lens	Order no. complete	Order no. single parts	
				Housing	Lens
	yes	transparent red	1.30.070.026/1306	-	-
	yes	transparent yellow	1.30.070.026/1403	-	-
	yes	transparent green	1.30.070.026/1505	-	-
	yes	transparent blue	1.30.070.026/1607	-	-
	yes	transparent colorless	1.30.070.026/1002	-	-

– Table (continued) –
RAFIX 16 - Pushbutton IP66 with protective cap

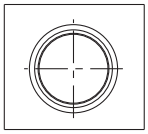
Pushbutton for use in hostile environments. A transparent protective cap ensures a degree of protection of IP 66 to DIN EN 60529.
Operating life: 500,000 operations.

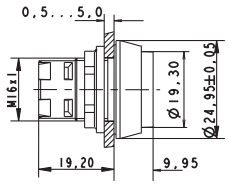
For the „latching“ function, please use the standard contact block with „latching“ function.

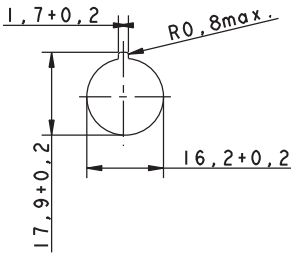
Accessoires:
Legend insert, blank, use only for transparent lenses: 5.70.637.000/2000
RAFIX 16 - Label holder, flush, for round collar: see page 2 - 80

RAFIX 16
Pushbutton, protruding lens, round collar

Technical data see page 2 - 9







Panel cut-out

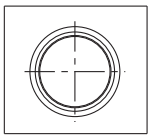
→ Illumination	Color of lens	Order no. complete	Order no. single parts	
			Housing	Lens
yes	transparent red	1.30.070.071/1306	1.30.070.571/0000	5.49.259.018/1306
yes	transparent yellow	1.30.070.071/1403	1.30.070.571/0000	5.49.259.018/1403
yes	transparent green	1.30.070.071/1505	1.30.070.571/0000	5.49.259.018/1505
yes	transparent blue	1.30.070.071/1607	1.30.070.571/0000	5.49.259.018/1607
yes	transparent colorless	1.30.070.071/1002	1.30.070.571/0000	5.49.259.018/1002
no	opaque red	1.30.070.321/0300	-	-
no	opaque black	1.30.070.321/0100	-	-

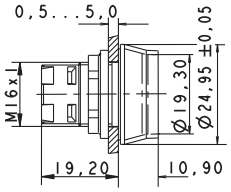
For the „latching“ function, please use the standard contact block with „latching“ function.

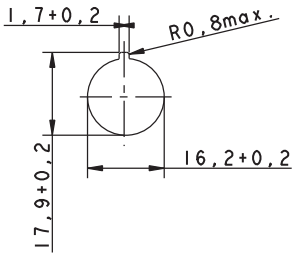
Accessoires:
Legend insert, blank, use only for transparent lenses: 5.70.637.000/2000
RAFIX 16 - Label holder, flush, for round collar: see page 2 - 80

RAFIX 16
Pushbutton, protruding collar, round collar

Technical data see page 2 - 9







Panel cut-out

→	Illumination	Color of lens	Order no. complete	Order no. single parts	
				Housing	Lens
	yes	transparent red	1.30.070.121/1306	1.30.070.621/0000	5.49.259.017/1306
	yes	transparent yellow	1.30.070.121/1403	1.30.070.621/0000	5.49.259.017/1403
	yes	transparent green	1.30.070.121/1505	1.30.070.621/0000	5.49.259.017/1505
	yes	transparent blue	1.30.070.121/1607	1.30.070.621/0000	5.49.259.017/1607
	yes	transparent colorless	1.30.070.121/1002	1.30.070.621/0000	5.49.259.017/1002

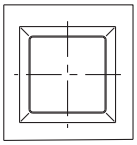
The protruding collar offers protection against inadvertent operation and thereby fulfils the safety requirements of various machinery manufacturers.

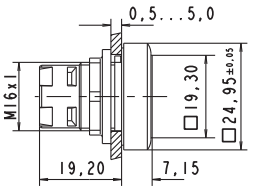
For the „latching“ function, please use the standard contact block with „latching“ function.

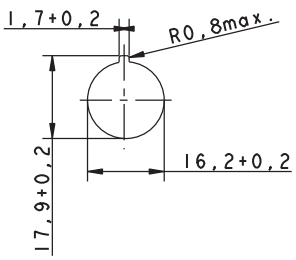
Accessoires:
Legend insert, blank, use only for transparent lenses: 5.70.637.000/2000
RAFIX 16 - Label holder, flush, for round collar: see page 2 - 80

RAFIX 16
Pushbutton, flush lens, square collar, alignable without gaps

Technical data see page 2 - 9







Panel cut-out

– Table (continued) –
RAFIX 16 - Pushbutton, flush lens, square collar, alignable without gaps

→	Illumination	Color of lens	Order no. complete	Order no. single parts	
				Housing	Lens
	yes	transparent red	1.30.070.201/1306	1.30.070.701/0000	5.49.077.011/1306
	yes	transparent yellow	1.30.070.201/1403	1.30.070.701/0000	5.49.077.011/1403
	yes	transparent green	1.30.070.201/1505	1.30.070.701/0000	5.49.077.011/1505
	yes	transparent blue	1.30.070.201/1607	1.30.070.701/0000	5.49.077.011/1607
	yes	transparent colorless	1.30.070.201/1002	1.30.070.701/0000	5.49.077.011/1002
	no	opaque red	1.30.070.451/0300	1.30.070.701/0000	5.49.077.011/0313
	no	opaque yellow	1.30.070.451/0400	1.30.070.701/0000	5.49.077.011/0410
	no	opaque green	1.30.070.451/0500	1.30.070.701/0000	5.49.077.011/0518
	no	opaque blue	1.30.070.451/0600	1.30.070.701/0000	5.49.077.011/0612
	no	opaque white	1.30.070.451/0200	1.30.070.701/0000	5.49.077.011/0200
	no	opaque black	1.30.070.451/0100	1.30.070.701/0000	5.49.077.011/0104

For the „latching“ function, please use the standard contact block with „latching“ function.

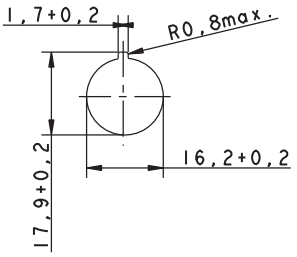
Accessoires:
Legend insert, blank, use only for transparent lenses: 5.70.635.000/2000
Protective cover, suitable for lead seal: 5.05.800.055/0000
RAFIX 16 - Label holder, protruding, for square flush fitting collar: see page 2 - 81

RAFIX 16
Selector switches

→ The illuminated selector switches are provided with translucent handle markings. These are opaque on the non-illuminated versions.

Technical Data

→ General information	
Actuator	handle
Marking of handle	see order block
Form of collar	see order block
→ Dimensions	
Collar dimensions	see order block
Overall height	17.1 mm
Mounting depth	44.7 mm
Mounting hole	16.2 mm
Key grid	25 x 25 mm
→ Mechanical design	
Mounting	ring nut
Contact function	see order block
Contact arrangement	according to contact block
Illumination	see order block
Rotating angle	see order block
→ Mechanical characteristics	
Torque max.	1.3 Nm
→ Other specifications	
Operating life (operations)	30,000
Degree of protection from front side	IP65 (DIN EN 60529)
Operation temperature min.	-25 °C
Ambient temp. operating max. without lamp /LED	+70 °C
Ambient temp. operating max. with lamp /LED	+55 °C
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes



Panel cut-out

Approvals

IEC 61058, 25T70 without lamp, 25T55 with lamp

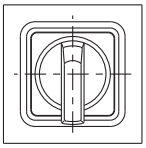
C22.2 No. 14-M91

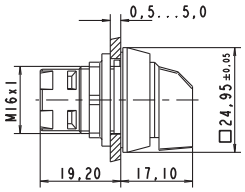
Accessories RAFIX 16 - Selector switch

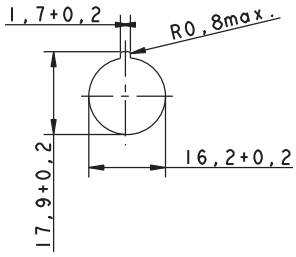
→ Description	Photo	Order no.	Additional accessories see page
RAFIX - Insulating housing, Ø 16.2 mm		-	2 - 78, 5 - 19
RAFIX 16 - Contact blocks with gold contacts		-	2 - 62
RAFIX 16 - Contact blocks with silver contacts		-	2 - 67
Socket W 2 x 4.6d, LED superbright		-	5 - 5
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 78, 5 - 26

RAFIX 16
Selector switch, square collar

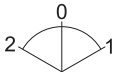
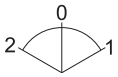
Technical data see page 2 - 17







Panel cut-out

→	Illumination	Contact function	Rotating angle		Marking of handle	Order no.
	yes	momentary	1 x 40°		translucent white	1.30.073.551/2000
	yes	momentary	2 x 40°		translucent white	1.30.073.651/2000
	yes	latching	1 x 90°, form L		translucent white	1.30.073.501/2000
	yes	latching	1 x 90°, form V		translucent white	1.30.073.601/2000
	yes	latching	2 x 60°		translucent white	1.30.073.701/2000
	no	momentary	1 x 40°		opaque white	1.30.073.550/0200
	no	momentary	2 x 40°		opaque white	1.30.073.650/0200
	no	latching	1 x 90°, form L		opaque white	1.30.073.500/0200
	no	latching	1 x 90°, form V		opaque white	1.30.073.600/0200
	no	latching	2 x 60°		opaque white	1.30.073.700/0200

Only use contact blocks with „momentary“ contact function.

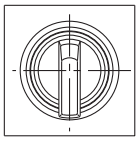
For versions with clockwise and counterclockwise rotation, use universal contact blocks only!

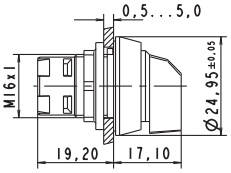
For colored illumination of the handle marking please use contact block with lamp socket and colored LED W 2 x 4,6d (see chapter 5 accessories).

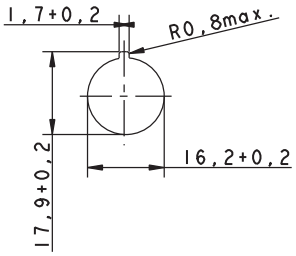
Accessoires:
RAFIX 16 - Label holder, flush, for square collar: see page 2 - 80

RAFIX 16
Selector switch, round collar

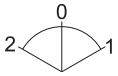
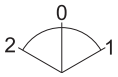
Technical data see page 2 - 17







Panel cut-out

→	Illumination	Contact function	Rotating angle		Marking of handle	Order no.
	yes	momentary	1 x 40°		translucent white	1.30.073.571/2000
	yes	momentary	2 x 40°		translucent white	1.30.073.671/2000
	yes	latching	1 x 90°, form L		translucent white	1.30.073.521/2000
	yes	latching	1 x 90°, form V		translucent white	1.30.073.621/2000
	yes	latching	2 x 60°		translucent white	1.30.073.721/2000
	no	momentary	1 x 40°		opaque white	1.30.073.570/0200
	no	momentary	2 x 40°		opaque white	1.30.073.670/0200
	no	latching	1 x 90°, form L		opaque white	1.30.073.520/0200
	no	latching	1 x 90°, form V		opaque white	1.30.073.620/0200
	no	latching	2 x 60°		opaque white	1.30.073.720/0200

Only use contact blocks with „momentary“ contact function.

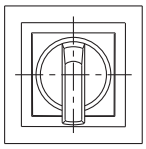
For versions with clockwise and counterclockwise rotation, use universal contact blocks only!

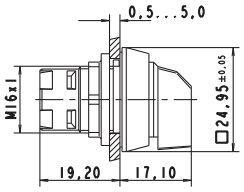
For colored illumination of the handle marking please use contact block with lamp socket and colored LED W 2 x 4,6d (see chapter 5 accessories).

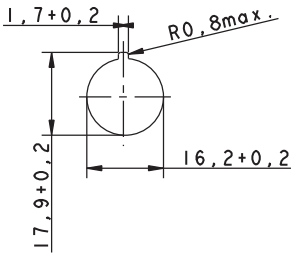
Accessoires:
RAFIX 16 - Label holder, flush, for round collar: see page 2 - 80

RAFIX 16
Selector switch, square collar, alignable without gaps

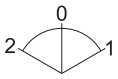
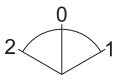
Technical data see page 2 - 17







Panel cut-out

→	Illumination	Contact function	Rotating angle		Marking of handle	Order no.
	yes	momentary	1 x 40°		translucent white	1.30.073.591/2000
	yes	momentary	2 x 40°		translucent white	1.30.073.691/2000
	yes	latching	1 x 90°, form L		translucent white	1.30.073.541/2000
	yes	latching	1 x 90°, form V		translucent white	1.30.073.641/2000
	yes	latching	2 x 60°		translucent white	1.30.073.741/2000
	no	momentary	1 x 40°		opaque white	1.30.073.590/0200
	no	momentary	2 x 40°		opaque white	1.30.073.690/0200
	no	latching	1 x 90°, form L		opaque white	1.30.073.540/0200
	no	latching	1 x 90°, form V		opaque white	1.30.073.640/0200
	no	latching	2 x 60°		opaque white	1.30.073.740/0200

Only use contact blocks with „momentary“ contact function.

For versions with clockwise and counterclockwise rotation, use universal contact blocks only!

For colored illumination of the handle marking please use contact block with lamp socket and colored LED W 2 x 4,6d (see chapter 5 accessories).

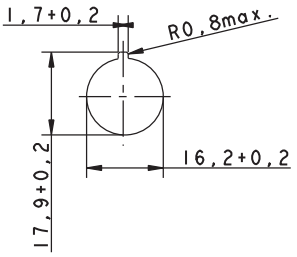
Accessoires:
RAFIX 16 - Label holder, protruding, for square flush fitting collar: see page 2 - 81

RAFIX 16
Keylock switches

→ The locking systems we use are created according to DIN EN 1303 by leading lock manufacturers. They are are open, mechanical systems that require occasional maintenance of the machinery or plant operator depending on environmental conditions.

Technical Data

→ **General information**	
Form of collar	see order block
→ **Dimensions**	
Collar dimensions	see order block
Overall height	27.95 mm
Mounting depth	44.7 mm
Mounting hole	16.2 mm
Key grid	25 x 25 mm
→ **Mechanical design**	
Mounting	ring nut
Contact function	see order block
Contact arrangement	according to contact block
Illumination	no
Lock	Micromec
Wafers	5
Lock type	001
Number of locking positions	500
Main key	on request
Rotating angle	see order block
Key removal position	see order block
→ **Mechanical characteristics**	
Torque max.	1.3 Nm
→ **Electrical characteristics**	
Protection class	II
→ **Other specifications**	
ESD-strength lock / contact	15 kV
ESD strength key/ front panel	8 kV
Operating life (operations)	65,000
Degree of protection from front side	IP65 (DIN EN 60529)
Operation temperature min.	-25 °C
Ambient temp. operating max. without lamp /LED	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes



Panel cut-out

Approvals

IEC 61058, 25T70

C22.2 No. 14-M91

Accessories RAFIX 16 - Keylock switch

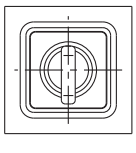
→ Description	Photo	Order no.	Additional accessories see page
RAFIX - Insulating housing, Ø 16.2 mm		-	2 - 78, 5 - 19
RAFIX 16 - Universal contact block, gold contacts, with quick-connect terminals		-	2 - 65

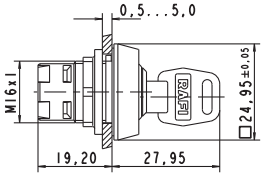
– Table (continued) –
Accessories RAFIX 16 - Keylock switch

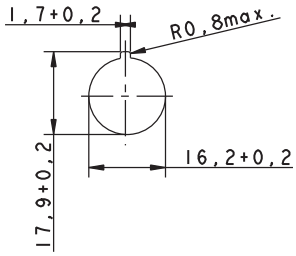
→	Description	Photo	Order no.	Additional accessories see page
	RAFIX 16 - Universal contact block, gold contacts, with screw terminals		-	2 - 66
	RAFIX 16 - Universal contact block, silver contacts, with quick-connect terminals		-	2 - 70
	RAFIX 16 - Universal contact block, silver contacts, with screw terminals		-	2 - 71
	Spare key, (delivery content 1 key)		5.58.007.001/0000	-
	Spare key, for double action, e.g. 2 x 90° (delivery content 1 key)		5.58.008.001/0000	-

RAFIX 16
Keylock switch, square collar

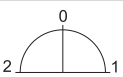
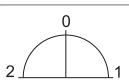
Technical data see page 2 - 21







Panel cut-out

→	Contact function	Rotating angle		Key removal position	Order no.
	momentary	1 x 40°		0	1.30.076.501/0000
	momentary	2 x 40°		0	1.30.076.701/0000
	latching	1 x 90°, form L		0	1.30.076.001/0000
	latching	1 x 90°, form L		0+1	1.30.076.051/0000
	latching	1 x 90°, form V		0	1.30.076.101/0000
	latching	1 x 90°, form V		0+1	1.30.076.151/0000
	latching	2 x 90°		0	1.30.076.301/0000
	latching	2 x 90°		0+1+2	1.30.076.401/0000

– Table (continued) –
RAFIX 16 - Keylock switch, square collar

Only use contact blocks with „momentary“ contact function. For versions with clockwise and counterclockwise rotation, use universal contact block only.

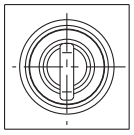
Other contact functions on request.

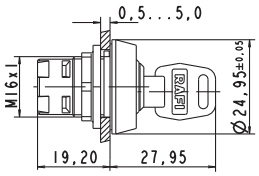
Included: 2 keys

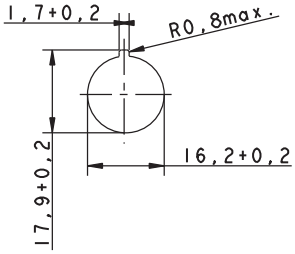
Accessoires:
RAFIX 16 - Label holder, flush, for square collar: see page 2 - 80

RAFIX 16
Keylock switch, round collar

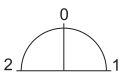
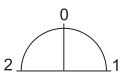
Technical data see page 2 - 21







Panel cut-out

→	Contact function	Rotating angle		Key removal position	Order no.
	momentary	1 x 40°		0	1.30.076.521/0000
	momentary	2 x 40°		0	1.30.076.721/0000
	latching	1 x 90°, form L		0	1.30.076.021/0000
	latching	1 x 90°, form L		0+1	1.30.076.071/0000
	latching	1 x 90°, form V		0	1.30.076.121/0000
	latching	1 x 90°, form V		0+1	1.30.076.171/0000
	latching	2 x 90°		0	1.30.076.321/0000
	latching	2 x 90°		0+1+2	1.30.076.421/0000

Only use contact blocks with „momentary“ contact function. For versions with clockwise and counterclockwise rotation, use universal contact block only.

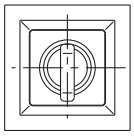
Other contact functions on request.

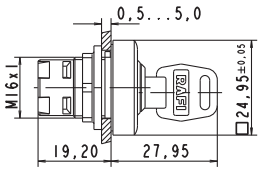
Included: 2 keys

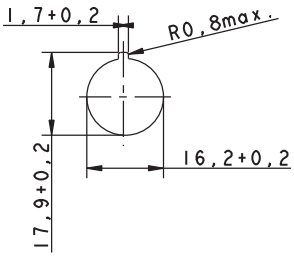
Accessoires:
RAFIX 16 - Label holder, flush, for round collar: see page 2 - 80

RAFIX 16
Keylock switch, square collar, alignable without gaps

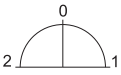
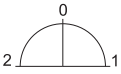
Technical data see page 2 - 21







Panel cut-out

→	Contact function	Rotating angle		Key removal position	Order no.
	momentary	1 x 40°		0	1.30.076.541/0000
	momentary	2 x 40°		0	1.30.076.741/0000
	latching	1 x 90°, form L		0	1.30.076.041/0000
	latching	1 x 90°, form L		0+1	1.30.076.091/0000
	latching	1 x 90°, form V		0	1.30.076.141/0000
	latching	1 x 90°, form V		0+1	1.30.076.191/0000
	latching	2 x 90°		0	1.30.076.341/0000
	latching	2 x 90°		0+1+2	1.30.076.441/0000

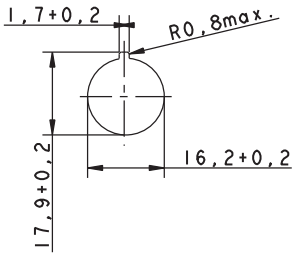
Only use contact blocks with „momentary“ contact function. For versions with clockwise and counterclockwise rotation, use universal contact block only.

Other contact functions on request.

Included: 2 keys

Accessoires:
RAFIX 16 - Label holder, protruding, for square flush fitting collar: see page 2 - 81

RAFIX 16 Mushroom-headed pushbuttons



Panel cut-out

Technical Data

→ General information	
Actuator	mushroom
Color of mushroom	see order block
Form of collar	see order block
→ Dimensions	
Collar dimensions	see order block
Overall height	12.1 mm
Mounting depth	44.7 mm
Mounting hole	16.2 mm
Key grid	25 x 25 mm
→ Mechanical design	
Mounting	ring nut
Contact function	according to contact block
Contact arrangement	according to contact block
Illumination	no
→ Mechanical characteristics	
Operating travel	3 mm
Robustness max.	100 Nm
→ Other specifications	
Operating life (operations)	2,000,000
Degree of protection from front side	IP65 (DIN EN 60529)
Operation temperature min.	-25 °C
Ambient temp. operating max. without lamp /LED	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes

Approvals

IEC 61058, 25T70

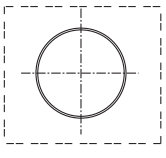
C22.2 No. 14-M91

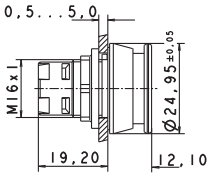
Accessories RAFIX 16 - Mushroom-headed pushbutton

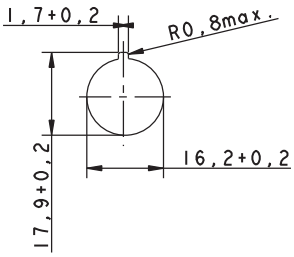
→ Description	Photo	Order no.	Additional accessories see page
RAFIX - Insulating housing, Ø 16.2 mm		-	2 - 78, 5 - 19
RAFIX 16 - Contact blocks with gold contacts		-	2 - 62
RAFIX 16 - Contact blocks with silver contacts		-	2 - 67
RAFIX 16 - Label holder, flush, for round collar		-	2 - 80
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 78, 5 - 26

RAFIX 16
Mushroom-headed pushbutton, round collar

Technical data see page 2 - 25





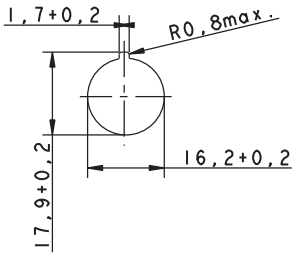


Panel cut-out

→ Illumination	Color of mushroom	Order no.
no	opaque red	1.30.071.021/0300
no	opaque black	1.30.071.021/0100

For the „latching“ function, please use the standard contact block with „latching“ function.

RAFIX 16 Emergency stop pushbuttons



Panel cut-out

→ Original operating instructions see Appendix.

Technical Data

→ General information	
Actuator	mushroom
Color of mushroom	see order block
Form of collar	see order block
→ Dimensions	
Collar dimensions	see order block
Overall height	see order block
Mounting depth	44.7 mm
Mounting hole	16.2 mm
→ Mechanical design	
Mounting	ring nut
Contact function	latching
Contact arrangement	according to contact block
Illumination	see order block
Reset	counterclockwise or clockwise rotation
→ Mechanical characteristics	
Robustness max.	100 N
Robustness	acc. to IEC 60947-5-5
→ Other specifications	
Operating life (operations)	30,000
Degree of protection from front side	IP65 (DIN EN 60529)
Operation temperature min.	-25 °C
Ambient temp. operating max. without lamp /LED	+70 °C
Ambient temp. operating max. with lamp /LED	+55 °C
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
Corresponding to CE Ma-Dir. 89/392	yes
Dupe-proof acc. to DIN EN ISO 13850	see order block
ROHS compliant	yes
REACH compliant	yes

Approvals

IEC 61058, 25T70 without lamp, 25T55 with lamp

C22.2 No. 14-M91

Accessories RAFIX 16 - Emergency stop pushbutton

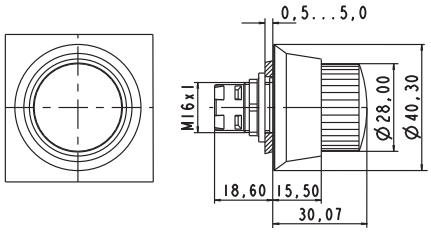
→ Description	Photo	Order no.	Additional accessories see page
Emergency stop label, PVC adhesive, Ø 16.3 mm		-	2 - 81, 5 - 21
RAFIX - Insulating housing, Ø 16.2 mm		-	2 - 78, 5 - 19
RAFIX 16 - Universal contact block with coupling monitoring, silver contacts, with quick-connect terminals		-	2 - 71
RAFIX 16 - Universal contact block, gold contacts, with quick-connect terminals		-	2 - 65

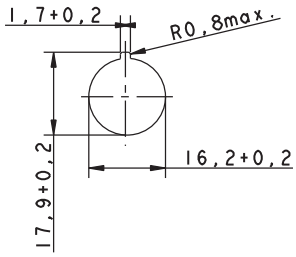
– Table (continued) –
Accessories RAFIX 16 - Emergency stop pushbutton

→	Description	Photo	Order no.	Additional accessories see page
	RAFIX 16 - Universal contact block, gold contacts, with screw terminals		-	2 - 66
	RAFIX 16 - Universal contact block, silver contacts, with quick-connect terminals		-	2 - 70
	RAFIX 16 - Universal contact block, silver contacts, with screw terminals		-	2 - 71
	Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 78, 5 - 26

RAFIX 16
Emergency stop pushbutton, round collar, dupe-proof, non-blocking

Technical data see page 2 - 27





Panel cut-out

→	Illumination	Color of mushroom	Order no.
	no	opaque red, collar yellow	1.30.074.821/0000

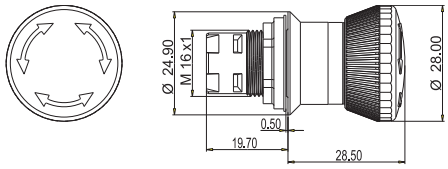
Only use universal contact blocks.

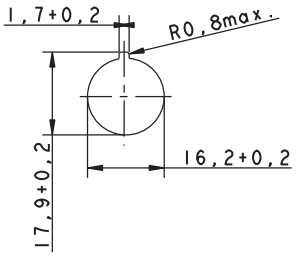
The positively driven mechanical arrangement is dupe-proof to DIN EN ISO 13850.

Special shape prevents blocking: Actuation cannot be interrupted by any jamming objects.

RAFIX 16
Emergency stop pushbutton, round collar, conical, dupe-proof, non-blocking

Technical data see page 2 - 27





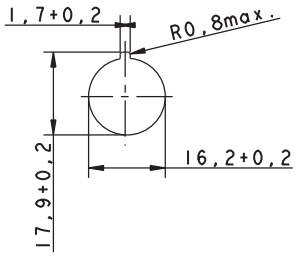
Panel cut-out

→	Illumination	Color of mushroom	Order no.
	no	opaque red	1.30.074.281/0300

Only use universal contact blocks.

The positively driven mechanical arrangement is dupe-proof to DIN EN ISO 13850.

RAFIX 16
Toggle switches



Panel cut-out

Technical Data

→ General information	
Form of collar	see order block
→ Dimensions	
Collar dimensions	see order block
Overall height	18.4 mm
Mounting depth	44.7 mm
Mounting hole	16.2 mm
Key grid	25 x 25 mm
→ Mechanical design	
Mounting	ring nut
Contact function	latching
Contact arrangement	according to contact block
Illumination	no
→ Mechanical characteristics	
Robustness max.	100 N
→ Other specifications	
Degree of protection from front side	IP65 (DIN EN 60529)
Operation temperature min.	-25 °C
Ambient temp. operating max. without lamp /LED	+70 °C
Ambient temp. operating max. with lamp /LED	+55 °C
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
Operating life (operations)	300,000
ROHS compliant	yes
REACH compliant	yes

Approvals

IEC 61058, 25T70

C22.2 No. 14-M91

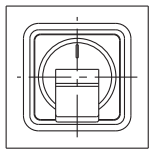
Accessories RAFIX 16 - Toggle switch

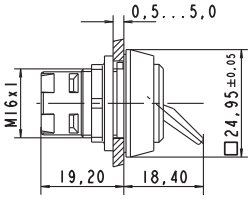
→ Description	Photo	Order no.	Additional accessories see page
RAFIX 16 - Standard contact block, 1 NC + 1 NO, momentary, silver contacts, without lamp socket		1.20.122.021/0000	2 - 68
RAFIX 16 - Standard contact block, 1 NC + 1 NO, momentary, gold contacts, without lamp socket		1.20.122.031/0000	2 - 63
RAFIX 16 - Standard contact block, silver contacts, without lamp socket, screw terminals		1.20.122.121/0000	2 - 69
RAFIX 16 - Standard contact block, gold contacts, without lamp socket, screw terminals		1.20.122.131/0000	2 - 64
Label holder, flush, for square collar		5.07.620.004/0000	2 - 80
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 78, 5 - 26

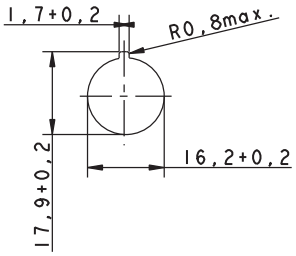
For other contact blocks, refer to the chapter „RAFIX 16 contact blocks“; for additional accessories, refer to the chapter „RAFIX 16 special accessories“.

RAFIX 16
Toggle switch, square collar

Technical data see page 2 - 30







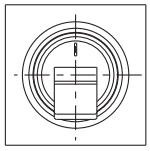
Panel cut-out

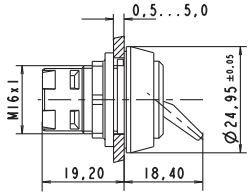
→	Contact function	Illumination	Order no.
	latching	no	1.30.075.001/0104

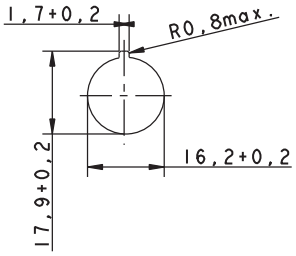
Only use contact blocks with „momentary“ contact function.

RAFIX 16
Toggle switch, round collar

Technical data see page 2 - 30







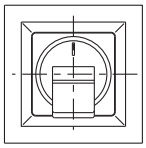
Panel cut-out

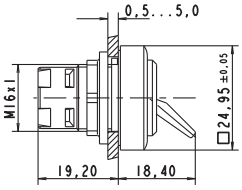
→	Contact function	Illumination	Order no.
	latching	no	1.30.075.021/0104

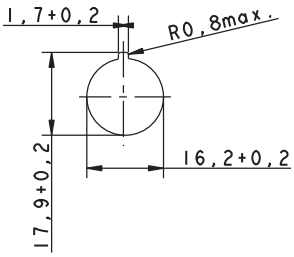
Only use contact blocks with „momentary“ contact function.

RAFIX 16
Toggle switch, square collar, alignable without gaps

Technical data see page 2 - 30







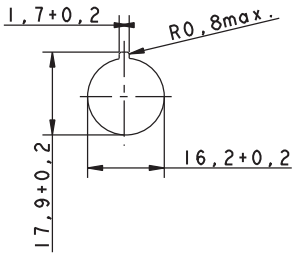
Panel cut-out

→ Contact function	Illumination	Order no.
latching	no	1.30.075.041/0104

Only use contact blocks with „momentary“ contact function.

RAFIX 16 Potentiometer drives

→ To operate potentiometers with a shaft diameter of 6 mm.
Suitable for potentiometers to DIN 41 450 with a shaft length of 32 mm.
Potentiometer not included.



Panel cut-out

Technical Data

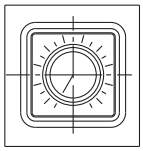
→ General information	
Form of lens	handle
Color of handle	black
Form of collar	see order block
→ Dimensions	
Collar dimensions	see order block
Overall height	23.65 mm
Mounting depth	19.2 mm
Mounting hole	16.2 mm
Key grid	25 x 25 mm
→ Mechanical design	
Mounting	ring nut
Thread nut	M10 x 0,75
→ Other specifications	
Degree of protection from front side	IP65 (DIN EN 60529)
Operation temperature min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes

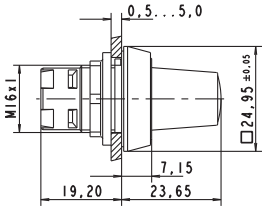
Accessories RAFIX 16 - Potentiometer drive

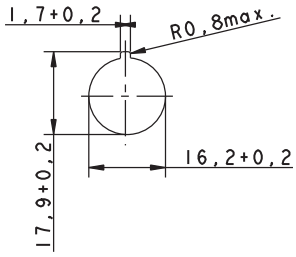
→ Description	Photo	Order no.	Additional accessories see page
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 78, 5 - 26

RAFIX 16
Potentiometer drive, square collar

Technical data see page 2 - 33







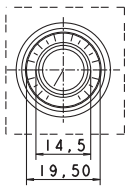
Panel cut-out

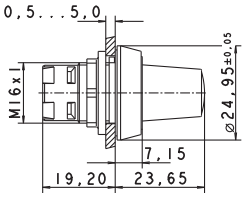
→	Form of lens	Form of collar	Color of handle	Order no.
	handle	square	black	1.30.077.001/0000

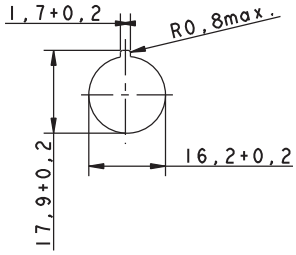
Accessoires:
RAFIX 16 - Label holder, flush, for square collar: see page 2 - 80

RAFIX 16
Potentiometer drive, round collar

Technical data see page 2 - 33







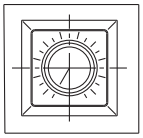
Panel cut-out

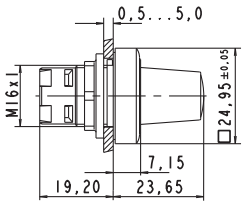
→	Form of lens	Form of collar	Color of handle	Order no.
	handle	round	black	1.30.077.021/0000

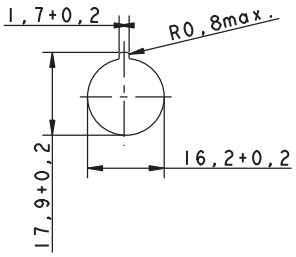
Accessoires:
RAFIX 16 - Label holder, flush, for round collar: see page 2 - 80

RAFIX 16
Potentiometer drive, square collar, alignable without gaps

Technical data see page 2 - 33



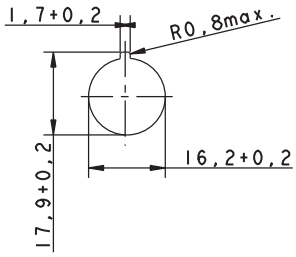




Panel cut-out

→	Form of lens	Form of collar	Color of handle	Order no.
	handle	square alignable	black	1.30.077.041/0000

Accessoires:
RAFIX 16 - Label holder, protruding, for square flush fitting collar: see page 2 - 81



Panel cut-out

RAFIX 16 Buzzers

Technical Data

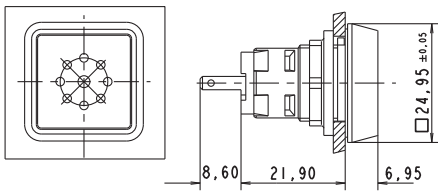
→ General information	
Form of lens	flat lens
Color of lens	opaque black
Form of collar	see order block
Sound	see order block
→ Dimensions	
Collar dimensions	see order block
Overall height	6.95 mm
Mounting depth	30.5 mm
Mounting hole	16.2 mm
Key grid	25 x 25 mm
→ Mechanical design	
Mounting	ring nut
→ Electrical characteristics	
Operating voltage DC	24 V
Input current	see order block
→ Acoustic characteristics	
Sonic pressure, 1 m distance min.	see order block
Sound frequency	2400 - 3100 Hz
→ Other specifications	
Degree of protection from front side	IP65 (DIN EN 60529)
Operation temperature min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes

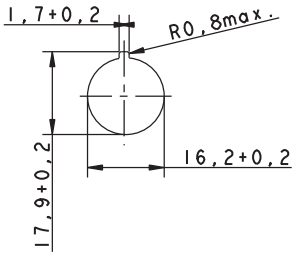
Accessories RAFIX 16 - Buzzer

→ Description	Photo	Order no.	Additional accessories see page
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 78, 5 - 26

RAFIX 16
Buzzer, square collar

Technical data see page 2 - 36





Panel cut-out

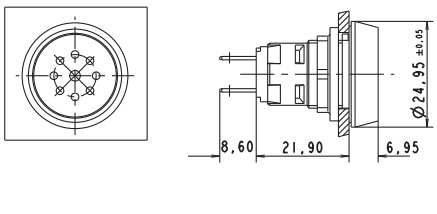
→	Operating voltage DC	Input current	Sound	Sonic pressure, 1 m distance min.	Order no.
	24 V	25 mA	continuos beep	70 dB	1.30.078.001/0100

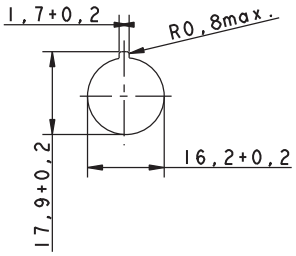
12 V DC available on request.

Accessoires:
RAFIX 16 - Label holder, flush, for square collar: see page 2 - 80

RAFIX 16
Buzzer, round collar

Technical data see page 2 - 36





Panel cut-out

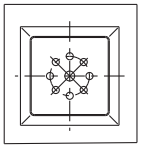
→	Operating voltage DC	Input current	Sound	Sonic pressure, 1 m distance min.	Order no.
	24 V	25 mA	continuos beep	70 dB	1.30.078.021/0100

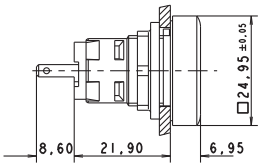
12 V DC available on request.

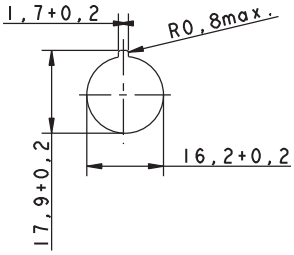
Accessoires:
RAFIX 16 - Label holder, flush, for round collar: see page 2 - 80

RAFIX 16
Buzzer, square collar, alignable without gaps

Technical data see page 2 - 36







Panel cut-out

→ Operating voltage DC	Input current	Sound	Sonic pressure, 1 m distance min.	Order no.
24 V	25 mA	continuos beep	70 dB	1.30.078.041/0100

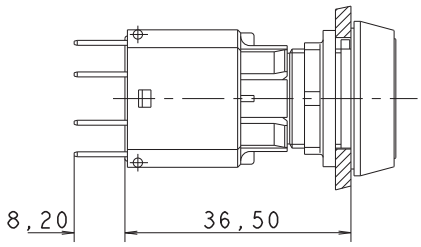
12 V DC available on request.

Accessoires:
RAFIX 16 - Label holder, protruding, for square flush fitting collar: see page 2 - 81

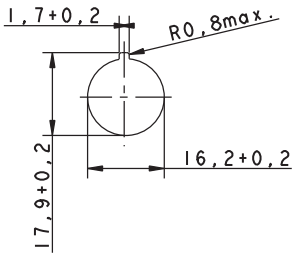
RAFIX 16
Signal indicators

Technical Data

→ General information	
Form of lens	see order block
Color of lens	see order block
Form of collar	see order block
→ Dimensions	
Collar dimensions	see order block
Overall height	see order block
Mounting depth	30.5 / 44.7 mm
Mounting hole	16.2 mm
Key grid	25 x 25 mm
→ Mechanical design	
Mounting	ring nut
→ Other specifications	
Degree of protection from front side	IP65 (DIN EN 60529)
Operation temperature min.	-25 °C
Ambient temp. operating max. without lamp /LED	+70 °C
Ambient temp. operating max. with lamp /LED	+55 °C
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes



with contact block / lamp socket



Panel cut-out

Approvals

IEC 61058, 25T55

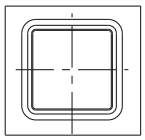
C22.2 No. 14-M91

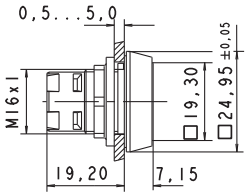
Accessories RAFIX 16 - Signal indicator

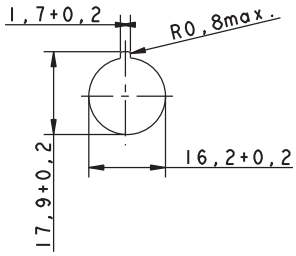
→ Description	Photo	Order no.	Additional accessories see page
RAFIX - Insulating housing, Ø 16.2 mm		-	2 - 78, 5 - 19
RAFIX 16 - Lamp socket		-	2 - 73
Socket W 2 x 4.6d, LED superbright		-	5 - 5
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 78, 5 - 26

RAFIX 16
Signal indicator, square lens

Technical data see page 2 - 39







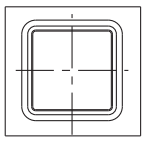
Panel cut-out

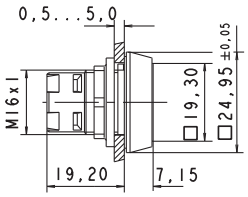
→ Form of lens	Color of lens	Order no. complete	Order no. single parts	
			Housing	Lens
lens square	transparent red	1.65.124.001/1306	1.65.124.101/0000	5.49.263.006/1306
lens square	transparent yellow	1.65.124.001/1403	1.65.124.101/0000	5.49.263.006/1403
lens square	transparent green	1.65.124.001/1505	1.65.124.101/0000	5.49.263.006/1505
lens square	transparent blue	1.65.124.001/1607	1.65.124.101/0000	5.49.263.006/1607
lens square	transparent colorless	1.65.124.001/1002	1.65.124.101/0000	5.49.263.006/1002

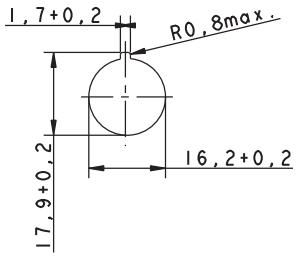
Legending can only be made externally on a label holder.

RAFIX 16
Signal indicator, square collar, flush lens

Technical data see page 2 - 39







Panel cut-out

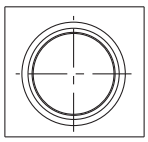
→ Form of lens	Color of lens	Order no. complete	Order no. single parts	
			Housing	Lens
flat lens	transparent red	1.65.124.301/1306	1.65.124.401/0000	5.49.077.011/1306
flat lens	transparent yellow	1.65.124.301/1403	1.65.124.401/0000	5.49.077.011/1403
flat lens	transparent green	1.65.124.301/1505	1.65.124.401/0000	5.49.077.011/1505
flat lens	transparent blue	1.65.124.301/1607	1.65.124.401/0000	5.49.077.011/1607
flat lens	transparent colorless	1.65.124.301/1002	1.65.124.401/0000	5.49.077.011/1002

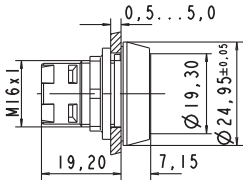
– Table (continued) –
RAFIX 16 - Signal indicator, square collar, flush lens

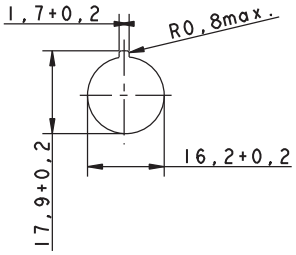
Accessoires:
Legend insert, blank, use only for transparent lenses: 5.70.635.000/2000

RAFIX 16
Signal indicator, round lens

Technical data see page 2 - 39







Panel cut-out

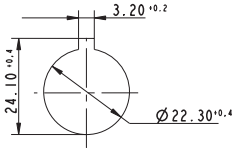
→ Form of lens	Color of lens	Order no. complete	Order no. single parts	
			Housing	Lens
lens round	transparent red	1.65.124.021/1306	1.65.124.101/0000	5.49.263.007/1306
lens round	transparent yellow	1.65.124.021/1403	1.65.124.101/0000	5.49.263.007/1403
lens round	transparent green	1.65.124.021/1505	1.65.124.101/0000	5.49.263.007/1505
lens round	transparent colorless	1.65.124.021/1002	1.65.124.101/0000	5.49.263.007/1002

Legending can only be made externally on a label holder.

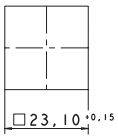
RAFIX 16 is a complete control component series with low profile design.

Actuators RAFIX 16 F

– **Panel cut-out ø 22.3 mm to IEC 60 947-5-1**
– **Panel cut-out □ 23.1 mm**



RAFIX 16 F round



RAFIX 16 F square

– Locating lug.
  The locating lug can be easily removed using a screw-driver.

– Degree of protection IP65 on panel
– Grid spacing 30 x 30 mm, round lens
– Grid spacing 25 x 25 mm, square lens
– Low profile, only 1.7 mm in front of the front panel
– Thickness of front panel 0.5 ... 3.5 mm
– Fixing with hexagon nut
– Fixing torque 1.2 Nm max.

Contact blocks RAFIX 16

– Contact block standard: for actuators with one-way operation
  • latching function
  • momentary function
– Contact block universal: for E-stop pushbuttons and for actuators with two-way operation, e. g. selector or keylock switches
  • momentary function

Contact material
– Silver contacts for mains voltage
– Gold contacts for electronic circuits

Illumination
– LED or wedge base lamp with socket W 2 x 4.6 d

Shock-resistance according to IEC 600 68-2-27
– Shock amplitude: ≤ 50 g
– Shock time: 11 ms
– Shock type: half sinusoidal

Environment conditions
– acc. to IEC 600 68-2, -14, -30, -33 and -78

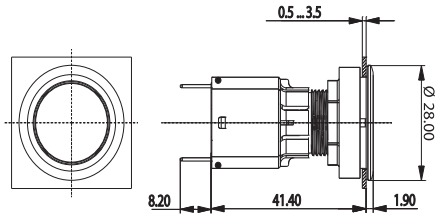
Temperature range
– Operating temperature:
  non-illuminated: - 25 ... + 70 °C
  illuminated: - 25 ... + 55 °C
– Storage temperature: - 40 ... + 85 °C

RAFIX 16 F Pushbuttons

→ RAFIX 16 F pushbuttons provide with less than 2 mm height above the front-panel an extremely low-profile design. The versions with square collars can be placed side by side so that a completely closed keyboard survey is possible.

Technical Data

→ General information	
Form of lens	see order block
Color of lens	see order block
Form of collar	see order block
Color of collar	see order block
→ Dimensions	
Collar dimensions	see order block
Overall height	see order block
Mounting depth with contact block	50 mm
Key grid	see order block
Mounting hole	see order block
→ Mechanical design	
Mounting	ring nut
Contact function	je nach Schaltelement
Illumination	see order block
→ Mechanical characteristics	
Robustness max.	100 N
→ Electrical characteristics	
Protection class	see order block
→ Other specifications	
Operating life (operations)	2,000,000
Degree of protection from front side	IP65 (DIN EN 60529)
Operation temperature min.	-25 °C
Ambient temp. operating max. without lamp /LED	+70 °C
Ambient temp. operating max. with lamp /LED	+55 °C
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes



Approvals

IEC 61058, 25T70 without lamp, 25T55 with lamp

in preparation

Accessories RAFIX 16 F - Pushbutton

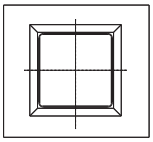
→ Description	Photo	Order no.	Additional accessories see page
RAFIX 16 - Contact blocks with gold contacts		-	2 - 62
RAFIX 16 - Contact blocks with silver contacts		-	2 - 67
Socket W 2 x 4.6d, LED superbright		-	5 - 5
Disassembly tool for LUMOTAST 25, RAFIX 16		5.05.800.042/0000	5 - 27

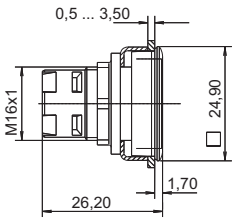
– Table (continued) –
Accessories RAFIX 16 F - Pushbutton

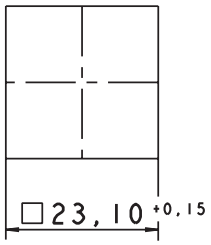
→	Description	Photo	Order no.	Additional accessories see page
	Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 78, 5 - 26

RAFIX 16 F
Pushbutton, flush lens, square black collar

Technical data see page 2 - 43







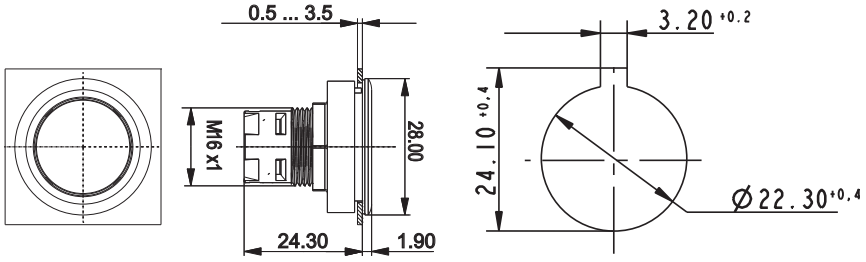
Panel cut-out

→	Color of collar	Illumination	Color of lens	Order no. complete	Order no. single parts	
					Housing	Lens
	black	yes	transparent red	1.30.090.001/1300	1.30.090.501/0000	5.49.077.011/1306
	black	yes	transparent yellow	1.30.090.001/1400	1.30.090.501/0000	5.49.077.011/1403
	black	yes	transparent green	1.30.090.001/1500	1.30.090.501/0000	5.49.077.011/1505
	black	yes	transparent blue	1.30.090.001/1600	1.30.090.501/0000	5.49.077.011/1607
	black	yes	transparent colorless	1.30.090.001/1000	1.30.090.501/0000	5.49.077.011/1002
	black	no	opaque red	1.30.090.251/0300	-	-
	black	no	opaque yellow	1.30.090.251/0400	-	-
	black	no	opaque green	1.30.090.251/0500	-	-
	black	no	opaque blue	1.30.090.251/0600	-	-
	black	no	opaque white	1.30.090.251/0200	-	-
	black	no	opaque black	1.30.090.251/0100	-	-

Accessoires:
Legend insert, blank, use only for transparent lenses: 5.70.635.000/2000

RAFIX 16 F
Pushbutton, flush lens, round black collar

Technical data see page 2 - 43



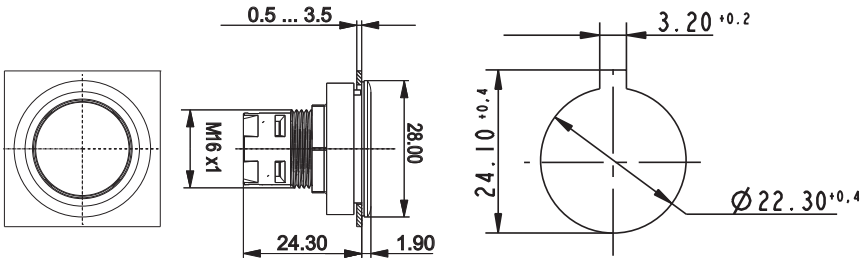
Panel cut-out to IEC 60947-5-1

→	Color of collar	Illumination	Color of lens	Order no. complete	Order no. single parts	
					Housing	Lens
	black	yes	transparent red	1.30.090.011/1300	1.30.090.511/0000	5.49.259.017/1306
	black	yes	transparent yellow	1.30.090.011/1400	1.30.090.511/0000	5.49.259.017/1403
	black	yes	transparent green	1.30.090.011/1500	1.30.090.511/0000	5.49.259.017/1505
	black	yes	transparent blue	1.30.090.011/1600	1.30.090.511/0000	5.49.259.017/1607
	black	yes	transparent colorless	1.30.090.011/1000	1.30.090.511/0000	5.49.259.017/1002
	black	no	opaque red	1.30.090.261/0300	-	-
	black	no	opaque yellow	1.30.090.261/0400	-	-
	black	no	opaque green	1.30.090.261/0500	-	-
	black	no	opaque blue	1.30.090.261/0600	-	-
	black	no	opaque white	1.30.090.261/0200	-	-
	black	no	opaque black	1.30.090.261/0100	-	-
	black	ring illumination	black	1.30.090.081/0000	-	-

Accessoires:
Legend insert, blank, use only for transparent lenses: 5.70.637.000/2000

RAFIX 16 F
Pushbutton, flush lens, round metallized collar

Technical data see page 2 - 43



Panel cut-out to IEC 60947-5-1

→	Color of collar	Illumination	Color of lens	Order no. complete	Order no. single parts	
					Housing	Lens
	silver metallic	yes	transparent red	1.30.090.012/1300	-	-
	silver metallic	yes	transparent yellow	1.30.090.012/1400	-	-
	silver metallic	yes	transparent green	1.30.090.012/1500	-	-
	silver metallic	yes	transparent blue	1.30.090.012/1600	-	-
	silver metallic	yes	transparent colorless	1.30.090.012/1000	-	-
	silver metallic	no	opaque red	1.30.090.262/0300	-	-
	silver metallic	no	opaque yellow	1.30.090.262/0400	-	-
	silver metallic	no	opaque green	1.30.090.262/0500	-	-
	silver metallic	no	opaque blue	1.30.090.262/0600	-	-
	silver metallic	no	opaque white	1.30.090.262/0200	-	-
	silver metallic	no	opaque black	1.30.090.262/0100	-	-
	silver metallic	ring illumination	silver-grey	1.30.090.082/0000	-	-

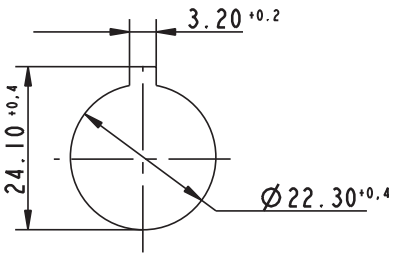
Accessoires:
Legend insert, blank, use only for transparent lenses: 5.70.637.000/2000

RAFIX 16 F
Selector switches

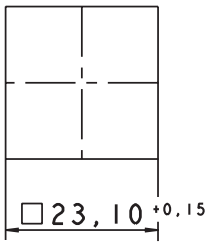
➔ The illuminated selector switches are provided with translucent handle markings. These are opaque on the non-illuminated versions.

Technical Data

➔ General information	
Actuator	handle
Color of handle marking	see order block
Form of collar	see order block
Color of collar	see order block
➔ Dimensions	
Collar dimensions	see order block
Overall height	12.1 mm
Mounting depth with contact block	50 mm
Key grid	see order block
Mounting hole	see order block
➔ Mechanical design	
Mounting	ring nut
Contact function	see order block
Illumination	see order block
Rotating angle	see order block
➔ Mechanical characteristics	
Torque max.	1.3 Nm
➔ Electrical characteristics	
Protection class	-
➔ Other specifications	
Operating life (operations)	30.000
Degree of protection from front side	IP65 (DIN EN 60529)
Operation temperature min.	-25 °C
Ambient temp. operating max. without lamp /LED	+70 °C
Ambient temp. operating max. with lamp /LED	+55 °C
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes



Panel cut-out to IEC 60947-5-1



Panel cut-out

Approvals

IEC 61058, 25T70 without lamp, 25T55 with lamp

in preparation

Accessories RAFIX 16 F - Selector switch

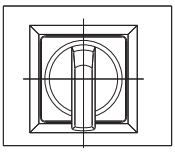
➔ Description	Photo	Order no.	Additional accessories see page
RAFIX 16 - Universal contact block with coupling monitoring, silver contacts, with quick-connect terminals		-	2 - 71
RAFIX 16 - Universal contact block, gold contacts, with quick-connect terminals		-	2 - 65
RAFIX 16 - Universal contact block, gold contacts, with screw terminals		-	2 - 66
RAFIX 16 - Universal contact block, silver contacts, with quick-connect terminals		-	2 - 70

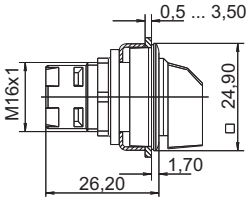
– Table (continued) –
Accessories RAFIX 16 F - Selector switch

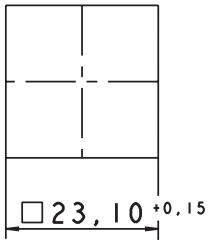
→	Description	Photo	Order no.	Additional accessories see page
	RAFIX 16 - Universal contact block, silver contacts, with screw terminals		-	2 - 71
	Socket W 2 x 4.6d, LED superbright		-	5 - 5
	Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 78, 5 - 26

RAFIX 16 F
Selector switch, square black collar

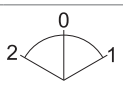
Technical data see page 2 - 47



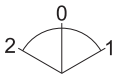




Panel cut-out

→	Color of collar	Illumination	Contact function	Rotating angle		Color of handle marking	Order no.
	black	yes	momentary	1 x 40°		translucent white	1.30.093.551/2000
	black	yes	momentary	2 x 40°		translucent white	1.30.093.651/2000
	black	yes	latching	1 x 90°, form L		translucent white	1.30.093.501/2000
	black	yes	latching	1 x 90°, form V		translucent white	1.30.093.601/2000
	black	yes	latching	2 x 60°		translucent white	1.30.093.701/2000
	black	no	momentary	1 x 40°		opaque white	1.30.093.550/0200
	black	no	momentary	2 x 40°		opaque white	1.30.093.650/0200
	black	no	latching	1 x 90°, form L		opaque white	1.30.093.500/0200
	black	no	latching	1 x 90°, form V		opaque white	1.30.093.600/0200

– Table (continued) –
RAFIX 16 F - Selector switch, square black collar

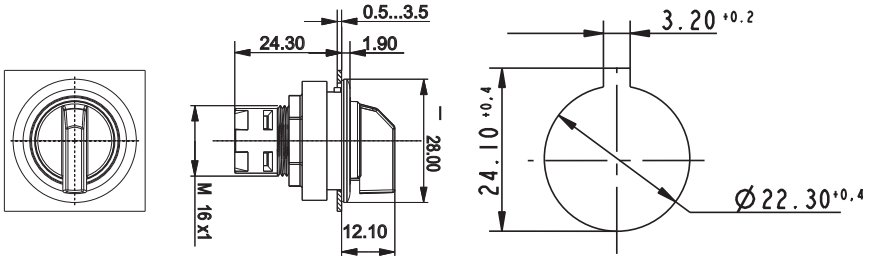
→	Color of collar	Illumination	Contact function	Rotating angle		Color of handle marking	Order no.
	black	no	latching	2 x 60°		opaque white	1.30.093.700/0200

Only use RAFIX 16 contact blocks with „momentary“ contact function. For versions with clockwise and counterclockwise rotation, use universal contact blocks only.

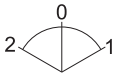
For colored illumination of the handle marking please use contact block with lamp socket and colored LED W 2 x 4,6d (see chapter 5 accessories).

RAFIX 16 F
Selector switch, round black collar

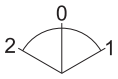
Technical data see page 2 - 47



Panel cut-out to IEC 60947-5-1

→	Color of collar	Illumination	Contact function	Rotating angle		Color of handle marking	Order no.
	black	yes	momentary	1 x 40°		translucent white	1.30.093.561/2000
	black	yes	momentary	2 x 40°		translucent white	1.30.093.661/2000
	black	yes	latching	1 x 90°, form L		translucent white	1.30.093.511/2000
	black	yes	latching	1 x 90°, form V		translucent white	1.30.093.611/2000
	black	yes	latching	2 x 60°		translucent white	1.30.093.711/2000
	black	no	momentary	1 x 40°		opaque white	1.30.093.560/0200
	black	no	momentary	2 x 40°		opaque white	1.30.093.660/0200
	black	no	latching	1 x 90°, form L		opaque white	1.30.093.510/0200
	black	no	latching	1 x 90°, form V		opaque white	1.30.093.610/0200

– Table (continued) –
RAFIX 16 F - Selector switch, round black collar

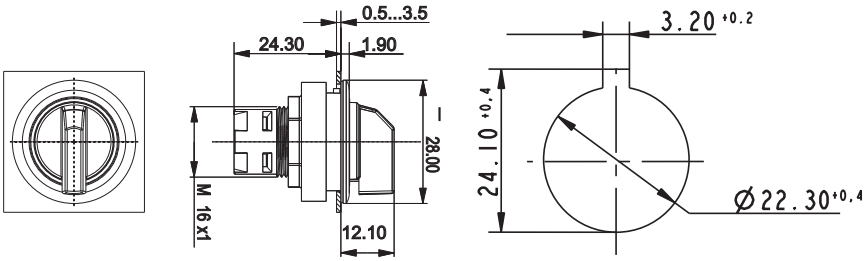
→	Color of collar	Illumination	Contact function	Rotating angle		Color of handle marking	Order no.
	black	no	latching	2 x 60°		opaque white	1.30.093.710/0200

Only use RAFIX 16 contact blocks with „momentary“ contact function. For versions with clockwise and counterclockwise rotation, use universal contact blocks only.

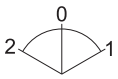
For colored illumination of the handle marking please use contact block with lamp socket and colored LED W 2 x 4,6d (see chapter 5 accessories).

RAFIX 16 F
Selector switch, round metallized collar

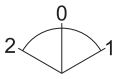
Technical data see page 2 - 47



Panel cut-out to IEC 60947-5-1

→	Color of collar	Illumination	Contact function	Rotating angle		Color of handle marking	Order no.
	silver metallic	yes	momentary	1 x 40°		translucent white	1.30.093.571/2000
	silver metallic	yes	momentary	2 x 40°		translucent white	1.30.093.671/2000
	silver metallic	yes	latching	1 x 90°, form L		translucent white	1.30.093.521/2000
	silver metallic	yes	latching	1 x 90°, form V		translucent white	1.30.093.621/2000
	silver metallic	yes	latching	2 x 60°		translucent white	1.30.093.721/2000
	silver metallic	no	momentary	1 x 40°		opaque white	1.30.093.570/0200
	silver metallic	no	momentary	2 x 40°		opaque white	1.30.093.670/0200
	silver metallic	no	latching	1 x 90°, form L		opaque white	1.30.093.520/0200
	silver metallic	no	latching	1 x 90°, form V		opaque white	1.30.093.620/0200

– Table (continued) –
RAFIX 16 F - Selector switch, round metallized collar

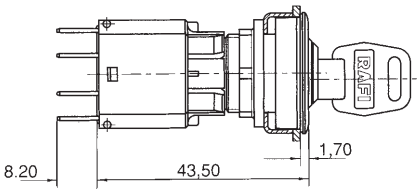
→	Color of collar	Illumination	Contact function	Rotating angle		Color of handle marking	Order no.
	silver metallic	no	latching	2 x 60°		opaque white	1.30.093.720/0200

Only use RAFIX 16 contact blocks with „momentary“ contact function. For versions with clockwise and counterclockwise rotation, use universal contact blocks only.

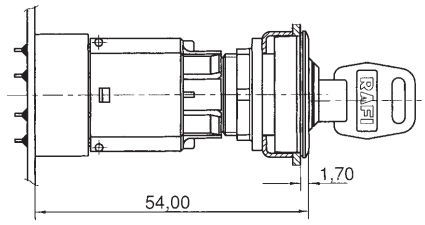
For colored illumination of the handle marking please use contact block with lamp socket and colored LED W 2 x 4,6d (see chapter 5 accessories).

RAFIX 16 F
Keylock switches

➔ The locking systems used in our switches are produced in accordance with DIN EN 1303 by leading lock manufacturers. The locking systems in key switches are open mechanical systems, which require occasional maintenance of the machinery or plant operator, according to the ambient conditions.



operating element and contact block



with PCB plug-in socket

Approvals

IEC 61058, 25T70

in preparation

Technical Data

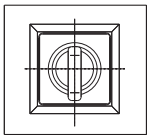
➔ General information	
Form of lens	flat lens
Color of lens	opaque black
Form of collar	see order block
	see order block
➔ Dimensions	
Collar dimensions	see order block
Overall height	24.10 mm
Mounting depth with contact block	50 mm
Key grid	see order block
Mounting hole	see order block
➔ Mechanical design	
Mounting	ring nut
Contact function	see order block
Illumination	no
Lock	Micromec
Wafers	5
Lock type	001
Number of locking positions	500
Main key	on request
Rotating angle	see order block
Key removal position	see order block
➔ Mechanical characteristics	
Torque max.	1.3 Nm
➔ Electrical characteristics	
Protection class	II
➔ Other specifications	
Operating life (operations)	65.000
Degree of protection from front side	IP65 (DIN EN 60529)
Operation temperature min.	-25 °C
Ambient temp. operating max. without lamp /LED	+70 °C
Ambient temp. operating max. with lamp /LED	-
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
Ambient temp. operating max.	+70 °C
ESD-strength lock / contact	15 kV
ESD-strength key/ front panel	4 kV
ROHS compliant	yes
REACH compliant	yes

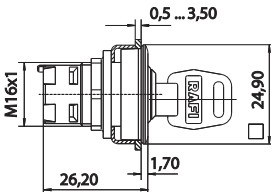
Accessories RAFIX 16 F - Keylock switch

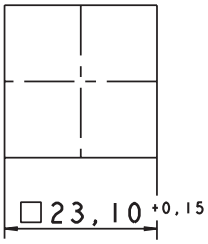
→	Description	Photo	Order no.	Additional accessories see page
	RAFIX 16 - Universal contact block with coupling monitoring, silver contacts, with quick-connect terminals		-	2 - 71
	RAFIX 16 - Universal contact block, gold contacts, with quick-connect terminals		-	2 - 65
	RAFIX 16 - Universal contact block, gold contacts, with screw terminals		-	2 - 66
	RAFIX 16 - Universal contact block, silver contacts, with quick-connect terminals		-	2 - 70
	RAFIX 16 - Universal contact block, silver contacts, with screw terminals		-	2 - 71
	Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 78, 5 - 26
	Spare key, (delivery content 1 key)		5.58.007.001/0000	-
	Spare key, for double action, e.g. 2 x 90° (delivery content 1 key)		5.58.008.001/0000	-

RAFIX 16 F
Keylock switch, square black collar

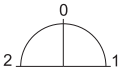
Technical data see page 2 - 52







Panel cut-out

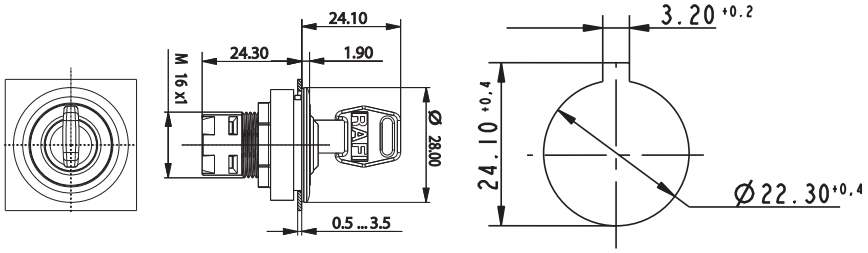
→	2130_025	Contact function	Rotating angle		Key removal position	Order no.
	black	momentary	1 x 40°		0	1.30.096.501/0000
	black	momentary	2 x 40°		0	1.30.096.701/0000
	black	latching	1 x 90°, form L		0+1	1.30.096.051/0000
	black	latching	1 x 90°, form V		0+1	1.30.096.151/0000
	black	latching	2 x 90°		0+1+2	1.30.096.401/0000

– Table (continued) –
RAFIX 16 F - Keylock switch, square black collar

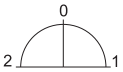
Only use RAFIX 16 contact blocks with „momentary“ contact function. For versions with clockwise and counterclockwise rotation, use universal contact blocks only.

RAFIX 16 F
Keylock switch, round black collar

Technical data see page 2 - 52



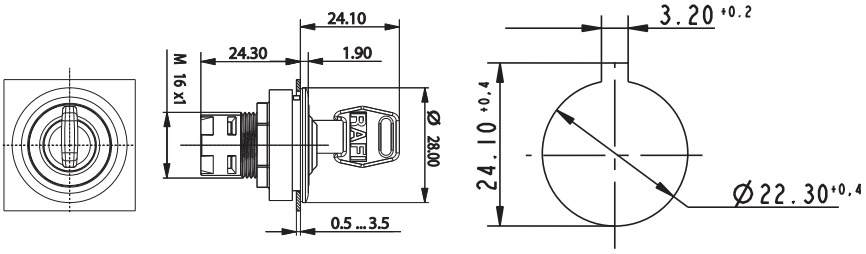
Panel cut-out to IEC 60947-5-1

→ 2130_025	Contact function	Rotating angle		Key removal position	Order no.
black	momentary	1 x 40°		0	1.30.096.511/0000
black	momentary	2 x 40°		0	1.30.096.711/0000
black	latching	1 x 90°, form L		0+1	1.30.096.061/0000
black	latching	1 x 90°, form V		0+1	1.30.096.161/0000
black	latching	2 x 90°		0+1+2	1.30.096.411/0000

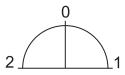
Only use RAFIX 16 contact blocks with „momentary“ contact function. For versions with clockwise and counterclockwise rotation, use universal contact blocks only.

RAFIX 16 F
Keylock switch, round metallized collar

Technical data see page 2 - 52



Panel cut-out to IEC 60947-5-1

→ 2130_025	Contact function	Rotating angle		Key removal position	Order no.
silver metallic	momentary	1 x 40°		0	1.30.096.521/0000
silver metallic	momentary	2 x 40°		0	1.30.096.721/0000
silver metallic	latching	1 x 90°, form L		0+1	1.30.096.071/0000
silver metallic	latching	1 x 90°, form V		0+1	1.30.096.171/0000
silver metallic	latching	2 x 90°		0+1+2	1.30.096.421/0000

Only use RAFIX 16 contact blocks with „momentary“ contact function. For versions with clockwise and counterclockwise rotation, use universal contact blocks only.

RAFIX 16 F Emergency stop pushbuttons

→ Original operating instructions see Appendix

Technical Data

→ General information	
Actuator	conical mushroom form
Color of mushroom	red, collar yellow
Form of collar	see order block
→ Dimensions	
Collar dimensions	see order block
Key grid	see order block
Overall height	24.10 mm
Mounting depth with contact block	50 mm
Key grid	see order block
Mounting hole	see order block
→ Mechanical design	
Mounting	ring nut
Contact function	latching
Illumination	no
Rest	clockwise or counterclockwise rotation
→ Mechanical characteristics	
Robustness max.	100 N
→ Electrical characteristics	
Protection class	see order block
→ Other specifications	
Operating life (operations)	10.000
Degree of protection from front side	IP65 (DIN EN 60529)
Operation temperature min.	-25 °C
Ambient temp. operating max. without lamp /LED	+70 °C
Ambient temp. operating max. with lamp /LED	-
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes

Approvals

IEC 61058, 25T70

in preparation

Accessories RAFIX 16 F - Emergency stop pushbutton

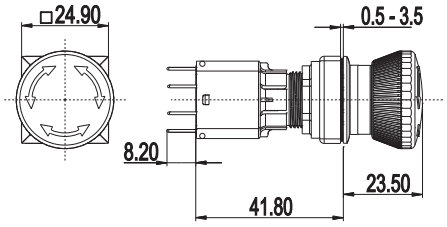
→ Description	Photo	Order no.	Additional accessories see page
RAFIX 16 - Universal contact block with coupling monitoring, silver contacts, with quick-connect terminals		-	2 - 71
RAFIX 16 - Universal contact block, gold contacts, with quick-connect terminals		-	2 - 65
RAFIX 16 - Universal contact block, gold contacts, with screw terminals		-	2 - 66
RAFIX 16 - Universal contact block, silver contacts, with quick-connect terminals		-	2 - 70

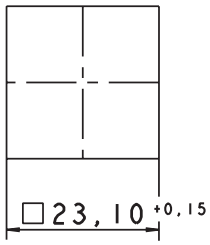
– Table (continued) –
Accessories RAFIX 16 F - Emergency stop pushbutton

→	Description	Photo	Order no.	Additional accessories see page
	RAFIX 16 - Universal contact block, silver contacts, with screw terminals		-	2 - 71
	Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 78, 5 - 26

RAFIX 16 F
Emergency stop pushbutton, square collar

Technical data see page 2 - 56





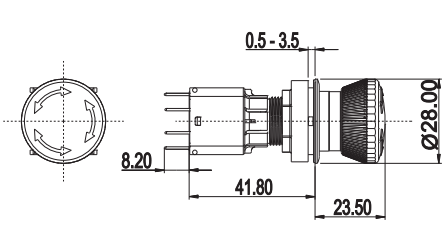
Panel cut-out

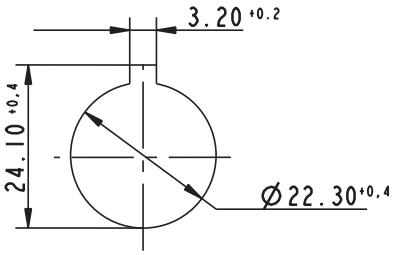
→	Contact function	Illumination	Color of mushroom	Mounting hole	Order no.
	latching	no	red, collar yellow	23.1 x 23.1 mm	1.30.094.001/0300

Only use universal contact blocks.

RAFIX 16 F
Emergency stop pushbutton, round collar

Technical data see page 2 - 56





Panel cut-out to IEC 60947-5-1

→ Contact function	Illumination	Color of mushroom	Mounting hole	Order no.
latching	no	red, collar yellow	Ø 22.3 mm	1.30.094.011/0300

Only use universal contact blocks.

Accessoires:
Emergency stop label, Ø 22.3 mm: see page 2 - 82, 2 - 149, 2 - 264, 5 - 21

RAFIX 16 F
Signal indicators

Technical Data

→ General information	
Form of lens	see order block
Color of lens	see order block
Form of collar	see order block
Color of collar	see order block
→ Dimensions	
Collar dimensions	see order block
Overall height	see order block
Mounting depth with contact block	50 mm
Key grid	see order block
Mounting hole	see order block
→ Mechanical design	
Mounting	ring nut
Contact function	-
Illumination	yes
→ Other specifications	
Operating life (operations)	-
Degree of protection from front side	IP65 (DIN EN 60529)
Operation temperature min.	-25 °C
Ambient temp. operating max. without lamp /LED	-
Ambient temp. operating max. with lamp /LED	+55 °C
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
ROHS compliant	yes
REACH compliant	yes

Approvals

IEC 61058, 25T55

in preparation

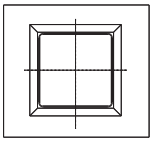
Accessories RAFIX 16 F - Signal indicator

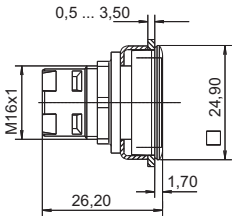
→ Description	Photo	Order no.	Additional accessories see page
RAFIX 16 - Lamp socket		-	2 - 73
Socket W 2 x 4.6d, LED superbright		-	5 - 5
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 78, 5 - 26
Legend insert, blank, use only for transparent lenses		5.70.635.000/2000	-

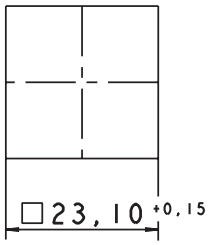
For additional accessories, refer to the chapter „RAFIX 16 special accessories“.

RAFIX 16 F
Signal indicator, flush lens, square black collar

Technical data see page 2 - 59







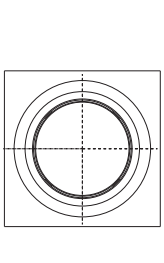
Panel cut-out

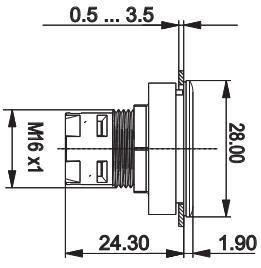
→	Color of collar	Overall height	Color of lens	Order no. complete	Order no. single parts	
					Housing	Lens
	black	1.7 mm	transparent red	1.65.126.301/1300	1.65.126.401/0000	5.49.077.011/1306
	black	1.7 mm	transparent yellow	1.65.126.301/1400	1.65.126.401/0000	5.49.077.011/1403
	black	1.7 mm	transparent green	1.65.126.301/1500	1.65.126.401/0000	5.49.077.011/1505
	black	1.7 mm	transparent blue	1.65.126.301/1600	1.65.126.401/0000	5.49.077.011/1607
	black	1.7 mm	transparent colorless	1.65.126.301/1000	1.65.126.401/0000	5.49.077.011/1002

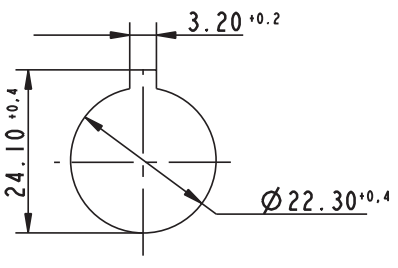
Accessoires:
Legend insert, blank, use only for transparent lenses: 5.70.635.000/2000

RAFIX 16 F
Signal indicator, flush lens, round black collar

Technical data see page 2 - 59







Panel cut-out to IEC 60947-5-1

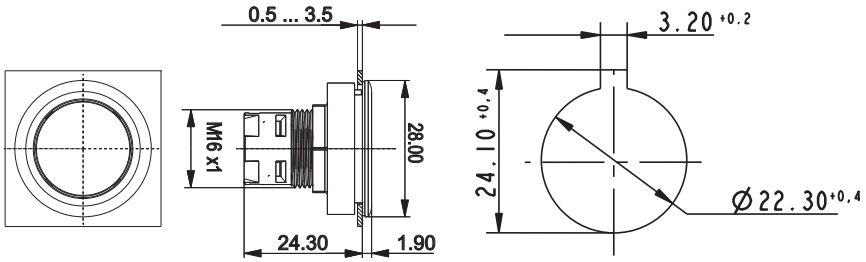
→	Color of collar	Overall height	Color of lens	Order no. complete	Order no. single parts	
					Housing	Lens
	black	1.9 mm	transparent red	1.65.126.001/1300	1.65.126.101/0000	5.49.259.017/1306
	black	1.9 mm	transparent yellow	1.65.126.001/1400	1.65.126.101/0000	5.49.259.017/1403
	black	1.9 mm	transparent green	1.65.126.001/1500	1.65.126.101/0000	5.49.259.017/1505

– Table (continued) –
RAFIX 16 F - Signal indicator, flush lens, round black collar

→	Color of collar	Overall height	Color of lens	Order no. complete	Order no. single parts	
					Housing	Lens
	black	1.9 mm	transparent blue	1.65.126.001/1600	1.65.126.101/0000	5.49.259.017/1607
	black	1.9 mm	transparent colorless	1.65.126.001/1000	1.65.126.101/0000	5.49.259.017/1002

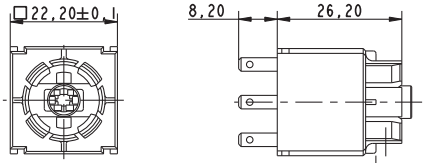
RAFIX 16 F
Signal indicator, flush lens, round metallized collar

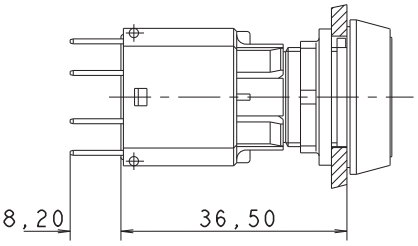
Technical data see page 2 - 59



Panel cut-out to IEC 60947-5-1

→	Color of collar	Overall height	Color of lens	Order no. complete	Order no. single parts	
					Housing	Lens
	silver metallic	1.9 mm	transparent red	1.65.126.011/1300	-	-
	silver metallic	1.9 mm	transparent yellow	1.65.126.011/1400	-	-
	silver metallic	1.9 mm	transparent green	1.65.126.011/1500	-	-
	silver metallic	1.9 mm	transparent blue	1.65.126.011/1600	-	-
	silver metallic	1.9 mm	transparent colorless	1.65.126.011/1000	-	-





with contact block / lamp socket

RAFIX 16 Contact blocks with gold contacts

Technical Data

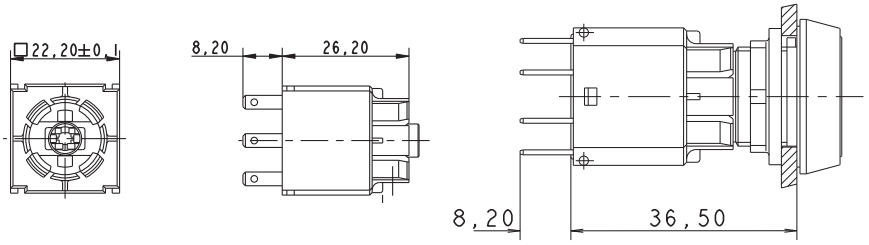
➔ Dimensions	
Size not mounted	see order block
Mounting depth (with actuator / indicator)	see order block
➔ Mechanical design	
Mounting	snap on actuator
Contact system	bridge-contact self cleaning
Contact materials	Au
Contact arrangement	see order block
Contact function	see order block
Lamp socket	see order block
Terminals	see order block
Terminal marking	according to DIN 50013, X1 = +, X2 = -
Operating travel	3 mm
Robustness	100 N
➔ Mechanical characteristics	
Robustness	acc. to IEC 60947-5-5
➔ Electrical characteristics	
Rated voltage min.	0.02 V
Rated voltage AC/DC max.	35 V
Rated current min.	0.001 A
Rated current max.	0.25 A
Operating life switching element (momentary)	2,000,000
Contact resistance when new max.	50 mΩ
➔ Other specifications	
Protection class	II
Shock resistance acc. to IEC 60068-2-27	amplitude < 50g, 11ms, half sinusoidal
Operation temperature min.	-25 °C
Ambient temp. operating max. without lamp /LED	+70 °C
Ambient temp. operating max. with lamp /LED	+55 °C
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Color code	white bottom
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
Mechanical operating life latching (operations)	2,000,000
Resistance to vibrations acc. to IEC 60068-2-6	10 g at 20 ... 500 Hz
Flame class acc. to UL 94	yes
	yes
ROHS compliant	yes
REACH compliant	yes

Accessories RAFIX 16 - Contact blocks with gold contacts

→	Description	Photo	Order no.	Additional accessories see page
	Socket W 2 x 4.6d, LED superbright		-	5 - 5

RAFIX 16
Standard contact block, gold contacts, with quick-connect terminals

Technical data see page 2 - 62



with contact block / lamp socket

→	Contact arrangement	Contact function	Lamp socket	Rated voltage AC/DC max.	Rated current max.	Order no.
	2 NO	momentary	W 2 x 4.6d	35 V	0.25 A	1.20.122.012/0000
	2 NO	momentary	-	35 V	0.25 A	1.20.122.032/0000
	2 NO	latching	W 2 x 4.6d	35 V	0.25 A	1.20.122.052/0000
	2 NC	momentary	W 2 x 4.6d	35 V	0.25 A	1.20.122.013/0000
	2 NC	momentary	-	35 V	0.25 A	1.20.122.033/0000
	1 NC + 1 NO	momentary	W 2 x 4.6d	35 V	0.25 A	1.20.122.011/0000
	1 NC + 1 NO	momentary	-	35 V	0.25 A	1.20.122.031/0000
	1 NC + 1 NO	latching	W 2 x 4.6d	35 V	0.25 A	1.20.122.051/0000

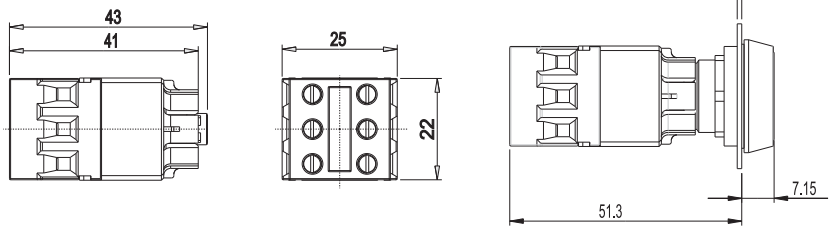
Standard contact blocks have one common contact chamber and one actuator plunger.

Contact blocks with „latching“ contact function are used as switches. When combined with pushbuttons and mushroom actuators, the switching position is visible, releasing is effected by actuating again.

Accessoires:
Female quick-connect terminal DIN 46340-B 2.8-1-MS: see page 2 - 76, 2 - 262, 5 - 27
Multipole connector: see page 2 - 76
PCB plug-in socket: see page 2 - 75
Plug distributor: see page 2 - 76, 5 - 27
Protection against contact: see page 2 - 77

RAFIX 16
Standard contact block, gold contacts, with screw terminals

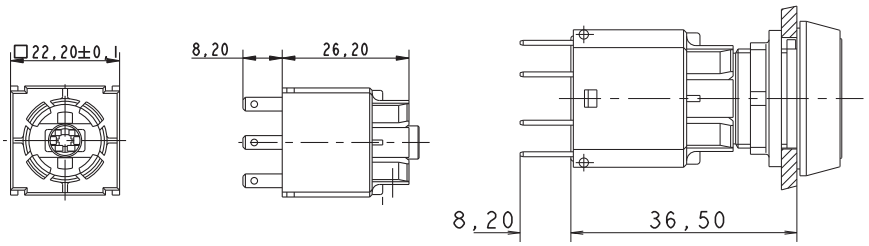
Technical data see page 2 - 62



→ Contact arrangement	Contact function	Lamp socket	Rated voltage AC/DC max.	Rated current max.	Order no.
2 NO	momentary	W 2 x 4.6d	35 V	0.25 A	1.20.122.112/0000
2 NO	momentary	-	35 V	0.25 A	1.20.122.132/0000
2 NO	latching	W 2 x 4.6d	35 V	0.25 A	1.20.122.152/0000
2 NO	latching	-	35 V	0.25 A	1.20.122.172/0000
2 NC	momentary	W 2 x 4.6d	35 V	0.25 A	1.20.122.113/0000
2 NC	momentary	-	35 V	0.25 A	1.20.122.133/0000
2 NC	latching	W 2 x 4.6d	35 V	0.25 A	1.20.122.153/0000
2 NC	latching	-	35 V	0.25 A	1.20.122.173/0000
1 NC + 1 NO	momentary	W 2 x 4.6d	35 V	0.25 A	1.20.122.111/0000
1 NC + 1 NO	momentary	-	35 V	0.25 A	1.20.122.131/0000
1 NC + 1 NO	latching	W 2 x 4.6d	35 V	0.25 A	1.20.122.151/0000
1 NC + 1 NO	latching	-	35 V	0.25 A	1.20.122.171/0000

RAFIX 16
Universal contact block, gold contacts, with quick-connect terminals

Technical data see page 2 - 62



with contact block / lamp socket

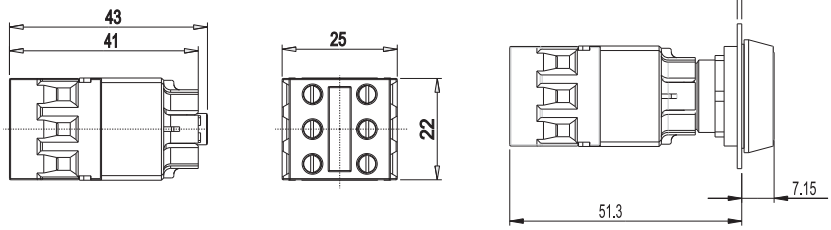
→ Contact arrangement	Contact function	Lamp socket	Rated voltage AC/DC max.	Rated current max.	Order no.
1 NO	momentary	W 2 x 4.6d	35 V	0.25 A	1.20.123.013/0000
1 NO	momentary	-	35 V	0.25 A	1.20.123.033/0000
1 NC	momentary	-	35 V	0.25 A	1.20.123.032/0000
2 NO	momentary	W 2 x 4.6d	35 V	0.25 A	1.20.123.015/0000
2 NO	momentary	-	35 V	0.25 A	1.20.123.035/0000
2 NC	momentary	W 2 x 4.6d	35 V	0.25 A	1.20.123.014/0000
2 NC	momentary	-	35 V	0.25 A	1.20.123.034/0000
1 NC + 1 NO	momentary	W 2 x 4.6d	35 V	0.25 A	1.20.123.011/0000
1 NC + 1 NO	momentary	-	35 V	0.25 A	1.20.123.031/0000

Universal contact blocks have two separate contact chambers and two actuator plungers for alternating actuation directions.
Two different polarities can be switched. The NC contacts are positive opening contacts to IEC 60947-5-1.

Accessoires:
Female quick-connect terminal DIN 46340-B 2.8-1-MS: see page 2 - 76, 2 - 262, 5 - 27
Multipole connector: see page 2 - 76
PCB plug-in socket: see page 2 - 75
Plug distributor: see page 2 - 76, 5 - 27
Protection against contact: see page 2 - 77

RAFIX 16
Universal contact block, gold contacts, with screw terminals

Technical data see page 2 - 62



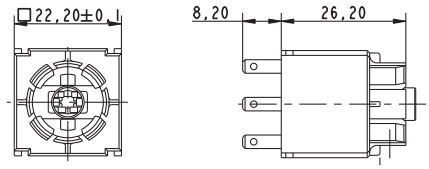
→ Contact arrangement	Contact function	Lamp socket	Rated voltage AC/DC max.	Rated current max.	Order no.
1 NO	momentary	W 2 x 4.6d	35 V	0.25 A	1.20.123.113/0000
1 NO	momentary	-	35 V	0.25 A	1.20.123.133/0000
1 NC	momentary	W 2 x 4.6d	35 V	0.25 A	1.20.123.112/0000
1 NC	momentary	-	35 V	0.25 A	1.20.123.132/0000
2 NO	momentary	W 2 x 4.6d	35 V	0.25 A	1.20.123.115/0000
2 NO	momentary	-	35 V	0.25 A	1.20.123.135/0000
2 NC	momentary	W 2 x 4.6d	35 V	0.25 A	1.20.123.114/0000
2 NC	momentary	-	35 V	0.25 A	1.20.123.134/0000
1 NC + 1 NO	momentary	W 2 x 4.6d	35 V	0.25 A	1.20.123.111/0000
1 NC + 1 NO	momentary	-	35 V	0.25 A	1.20.123.131/0000

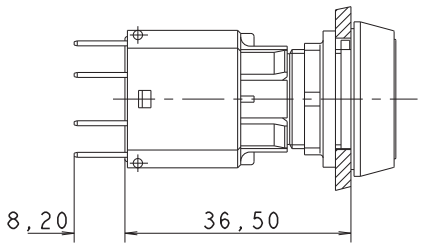
Universal contact blocks have two separate contact chambers and two actuator plungers for alternating actuation directions. Two different polarities can be switched. The NC contacts are positive opening contacts to IEC 60947-5-1.

RAFIX 16
Contact blocks with silver contacts

Technical Data

→ Dimensions	
Size not mounted	see order block
Mounting depth (with actuator / indicator)	see order block
→ Mechanical design	
Mounting	snap on actuator
Contact system	bridge-contact self cleaning
Contact materials	Ag
Contact arrangement	see order block
Contact function	see order block
Lamp socket	see order block
Terminals	see order block
Terminal marking	according to DIN 50013, X1 = +, X2 = -
Operating travel	3 mm
Robustness	100 N
→ Mechanical characteristics	
Robustness	acc. to IEC 60947-5-5
→ Electrical characteristics	
Rated insulation voltage acc. to VDE 0110, AC	250 V
Rated insulation voltage acc. to VDE 0110, DC	300 V
Ohmic rated current I_R	6 A
Rated motor current $I_{M\ nenn}$	4 A
Application category acc. to VDE 0660 Teil 200	AC 15B 300
Application category acc. to VDE 0660 Teil 200	DC 13Q 300
Rated insulation voltage U_I, AC	250 V
Rated insulation voltage U_I, DC	300 V
Rated voltage U_E/ rated current I_E, AC	250 V/1.5 A, 120 V/3.0 A V
Rated voltage U_E/ rated current I_E, DC	250 V/0.27 A, 125 V/0.55 A, 60 V/1 A, 24 V/2 A V
Thermic rated current I_{the}, AC	5 A
Thermic rated current I_{the}, DC	2.5 A
Operating life switching element AC	100,000 at 6A, 800.000 at 2A
Operating life switching element DC	250,000 at 220 V/0.2 A, 1,000,000 at 24 V/2 A
Rated power DC	10 x I_E
Rated power AC	1.1 x I_E
Contact resistance when new max.	20 mΩ
→ Other specifications	
Protection class	II
Corresponding to EU directive NSR 72/73	yes
Shock resistance acc. to IEC 60068-2-27	amplitude < 50g, 11ms, half sinusoidal
Operation temperature min.	-25 °C
Ambient temp. operating max. without lamp /LED	+70 °C
Ambient temp. operating max. with lamp /LED	+55 °C
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Color code	grey bottom
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
Mechanical operating life latching (operations)	100,000





with contact block / lamp socket

Approvals

IEC 61058, 25T70 without lamp, 25T55 with lamp

C22.2 No. 14-M91

– Technical data (continued) –
RAFIX 16 - Contact blocks with silver contacts

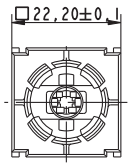
Resistance to vibrations acc. to IEC 60068-2-6	10 g at 20 ... 500 Hz
Flame class acc. to UL 94	V 0
Hot wire ignition acc. to IEC 60695-2-1	yes
ROHS compliant	yes
REACH compliant	yes

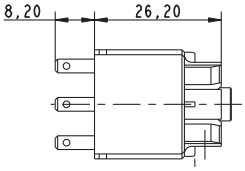
Accessories RAFIX 16 - Contact blocks with silver contacts

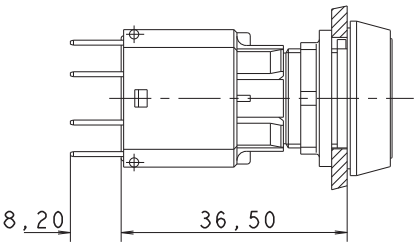
→ Description	Photo	Order no.	Additional accessories see page
Socket W 2 x 4.6d, LED superbright		-	5 - 5

RAFIX 16
Standard contact block, silver contacts, with quick-connect terminals

Technical data see page 2 - 67







with contact block / lamp socket

→ Contact arrangement	Contact function	Lamp socket	Rated insulation voltage U_i, AC	Ohmic rated current I_R	Order no.
2 NO	momentary	W 2 x 4.6d	250 V	6 A	1.20.122.002/0000
2 NO	momentary	-	250 V	6 A	1.20.122.022/0000
2 NO	latching	W 2 x 4.6d	250 V	6 A	1.20.122.042/0000
2 NO	latching	-	250 V	6 A	1.20.122.062/0000
2 NC	momentary	W 2 x 4.6d	250 V	6 A	1.20.122.003/0000
2 NC	momentary	-	250 V	6 A	1.20.122.023/0000
1 NC + 1 NO	momentary	W 2 x 4.6d	250 V	6 A	1.20.122.001/0000
1 NC + 1 NO	momentary	-	250 V	6 A	1.20.122.021/0000
1 NC + 1 NO	latching	W 2 x 4.6d	250 V	6 A	1.20.122.041/0000
1 NC + 1 NO	latching	-	250 V	6 A	1.20.122.061/0000

– Table (continued) –
RAFIX 16 - Standard contact block, silver contacts, with quick-connect terminals

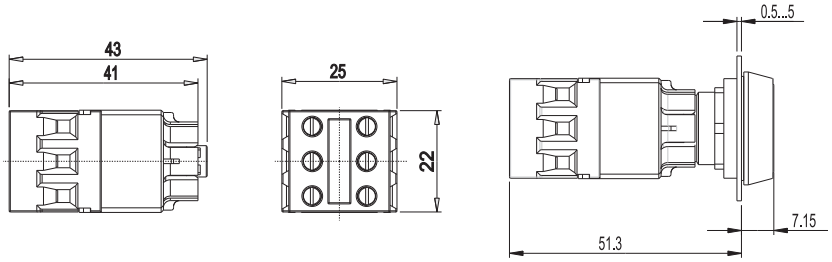
Standard contact blocks have one common contact chamber and one actuator plunger.

Contact blocks with „latching“ contact function are used as switches. When combined with pushbuttons and mushroom actuators, the switching position is visible, releasing is effected by actuating again.

Accessoires:
Female quick-connect terminal DIN 46340-B 2.8-1-MS: see page 2 - 76, 2 - 262, 5 - 27
Multipole connector: see page 2 - 76
PCB plug-in socket: see page 2 - 75
Plug distributor: see page 2 - 76, 5 - 27
Protection against contact: see page 2 - 77

RAFIX 16
Standard contact block, silver contacts, with screw terminals

Technical data see page 2 - 67



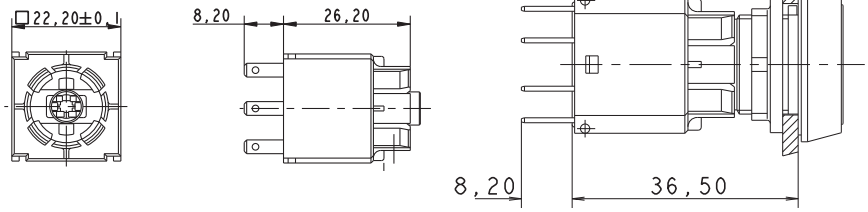
→	Contact arrangement	Contact function	Lamp socket	Rated insulation voltage U_i, AC	Ohmic rated current I_R	Order no.
	2 NO	momentary	W 2 x 4.6d	250 V	6 A	1.20.122.102/0000
	2 NO	momentary	-	250 V	6 A	1.20.122.122/0000
	2 NO	latching	W 2 x 4.6d	250 V	6 A	1.20.122.142/0000
	2 NO	latching	-	250 V	6 A	1.20.122.162/0000
	2 NC	momentary	W 2 x 4.6d	250 V	6 A	1.20.122.103/0000
	2 NC	momentary	-	250 V	6 A	1.20.122.123/0000
	2 NC	latching	W 2 x 4.6d	250 V	6 A	1.20.122.143/0000
	2 NC	latching	-	250 V	6 A	1.20.122.163/0000
	1 NC + 1 NO	momentary	W 2 x 4.6d	250 V	6 A	1.20.122.101/0000
	1 NC + 1 NO	momentary	-	250 V	6 A	1.20.122.121/0000
	1 NC + 1 NO	latching	W 2 x 4.6d	250 V	6 A	1.20.122.141/0000
	1 NC + 1 NO	latching	-	250 V	6 A	1.20.122.161/0000

Standard contact blocks have one common contact chamber and one actuator plunger.

Contact blocks with „latching“ contact function are used as switches. When combined with pushbuttons and mushroom actuators, the switching position is visible, releasing is effected by actuating again.

RAFIX 16
Universal contact block, silver contacts, with quick-connect terminals

Technical data see page 2 - 67



with contact block / lamp socket

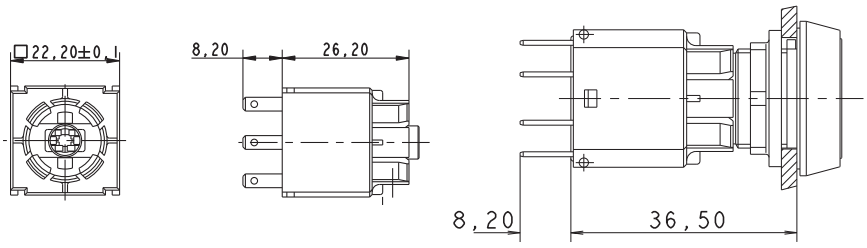
→ Contact arrangement	Contact function	Lamp socket	Rated insulation voltage U_i, AC	Ohmic rated current I_R	Order no.
1 NO	momentary	W 2 x 4.6d	250 V	6 A	1.20.123.003/0000
1 NO	momentary	-	250 V	6 A	1.20.123.023/0000
1 NC	momentary	-	250 V	6 A	1.20.123.022/0000
2 NO	momentary	W 2 x 4.6d	250 V	6 A	1.20.123.005/0000
2 NO	momentary	-	250 V	6 A	1.20.123.025/0000
2 NC	momentary	W 2 x 4.6d	250 V	6 A	1.20.123.004/0000
2 NC	momentary	-	250 V	6 A	1.20.123.024/0000
1 NC + 1 NO	momentary	W 2 x 4.6d	250 V	6 A	1.20.123.001/0000
1 NC + 1 NO	momentary	-	250 V	6 A	1.20.123.021/0000

Universal contact blocks have two separate contact chambers and two actuator plungers. This makes it possible to switch two different polarities. The NC contacts are positive opening contacts to IEC 60947-5-1.

Accessoires:
Female quick-connect terminal DIN 46340-B 2.8-1-MS: see page 2 - 76, 2 - 262, 5 - 27
Multipole connector: see page 2 - 76
PCB plug-in socket: see page 2 - 75
Plug distributor: see page 2 - 76, 5 - 27
Protection against contact: see page 2 - 77

RAFIX 16
Universal contact block with coupling monitoring, silver contacts, with quick-connect terminals

Technical data see page 2 - 67



with contact block / lamp socket

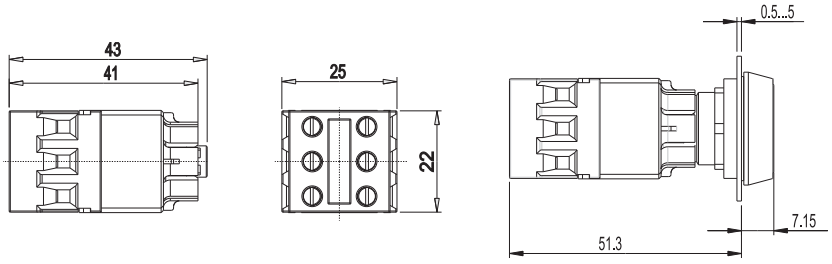
→	Contact arrangement	Contact function	Lamp socket	Rated insulation voltage U_I, AC	Ohmic rated current I_R	Order no.
	2 NC + 1 NO	momentary	-	250 V	6 A	1.20.123.921/0000

Function
The contact block with coupling monitoring detects a accidental separartion of the contact block from of the front-side actuator by a contact.
Universal contact blocks have two separate contact chambers and two actuator plungers. This makes it possible to switch two different polarities. The NC contacts are positive opening contacts to IEC 60947-5-1.

Accessoires:
Female quick-connect terminal DIN 46340-B 2.8-1-MS: see page 2 - 76, 2 - 262, 5 - 27
Multipole connector: see page 2 - 76
PCB plug-in socket: see page 2 - 75
Plug distributor: see page 2 - 76, 5 - 27
Protection against contact: see page 2 - 77

RAFIX 16
Universal contact block, silver contacts, with screw terminals

Technical data see page 2 - 67



→	Contact arrangement	Contact function	Lamp socket	Rated insulation voltage U_I, AC	Ohmic rated current I_R	Order no.
	1 NO	momentary	W 2 x 4.6d	250 V	6 A	1.20.123.103/0000

– Table (continued) –
RAFIX 16 - Universal contact block, silver contacts, with screw terminals

→	Contact arrangement	Contact function	Lamp socket	Rated insulation voltage U_i, AC	Ohmic rated current I_R	Order no.
	1 NO	momentary	-	250 V	6 A	1.20.123.123/0000
	1 NC	momentary	W 2 x 4.6d	250 V	6 A	1.20.123.102/0000
	1 NC	momentary	-	250 V	6 A	1.20.123.122/0000
	2 NO	momentary	W 2 x 4.6d	250 V	6 A	1.20.123.105/0000
	2 NO	momentary	-	250 V	6 A	1.20.123.125/0000
	2 NC	momentary	W 2 x 4.6d	250 V	6 A	1.20.123.104/0000
	2 NC	momentary	-	250 V	6 A	1.20.123.124/0000
	1 NC + 1 NO	momentary	W 2 x 4.6d	250 V	6 A	1.20.123.101/0000
	1 NC + 1 NO	momentary	-	250 V	6 A	1.20.123.121/0000

Universal contact blocks have two separate contact chambers and two actuator plungers. This makes it possible to switch two different polarities. The NC contacts are positive opening contacts to IEC 60947-5-1.

RAFIX 16
Lamp sockets

Technical Data

→ Dimensions	
Size not mounted	see order block
Mounting depth	see order block
→ Mechanical design	
Mounting	see order block
Lamp socket	wedge-base W 2 x 4.6d
Terminals	quick connector 2.8 x 0.8 mm
Terminal marking	X1 = anode, X2 = cathode
→ Electrical characteristics	
Rated voltage	60 V
Rated power	1.2 W
→ Other specifications	
Shock resistance acc. to IEC 60068-2-27	amplitude < 50g, 11ms, half sinusoidal
Ambient temp. operating min.	-25 °C
Ambient temp. operating max. with lamp /LED	+55 °C
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Environmental restistance	acc. to IEC 60068-2-14, -30, -33 and -78
Flame class acc. to UL 94	V 0
Hot wire ignition acc. to IEC 60695-2-1	yes
Resistance to vibrations acc. to IEC 60068-2-6	10 g at 20 ... 500 Hz
ROHS compliant	yes
REACH compliant	yes

Approvals

IEC 61058, 25T55

C22.2 No. 14-M91

Accessories RAFIX 16 - Lamp socket

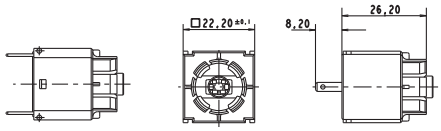
→ Description	Photo	Order no.	Additional accessories see page
Female quick-connect terminal DIN 46340-B 2.8-1-MS		-	2 - 76, 2 - 262, 5 - 27
Multipole connector		-	2 - 76
PCB plug-in socket		-	2 - 75
Plug distributor		-	2 - 76, 5 - 27
Protection against contact		-	2 - 77
RAFIX 16 - Signal indicator		-	2 - 39
RAFIX 16 F - Signal indicator		-	2 - 59
Socket W 2 x 4.6d, LED superbright		-	5 - 5

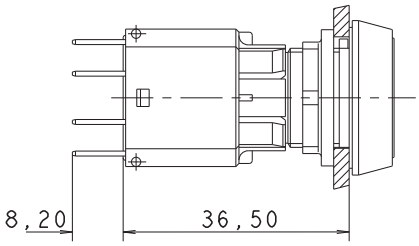
– Table (continued) –
Accessories RAFIX 16 - Lamp socket

→	Description	Photo	Order no.	Additional accessories see page
	Wedge base W 2 x 4.6d, filament lamps, DIN 49846		-	5 - 9

RAFIX 16
Lamp socket W 2 x 4.6 d

Technical data see page 2 - 73





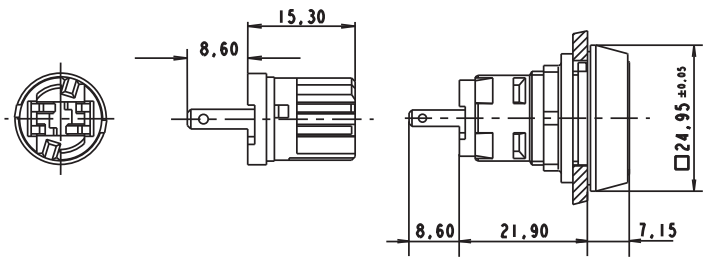
with contact block / lamp socket

→	Rated voltage	Rated power	Lamp socket	Mounting	Mounting depth	Order no.
	60 V	1.2 W	wedge-base W 2 x 4.6d	click on signal indicator	44.7 mm	1.71.212.001/0000

A notch on the lamp socket identifies the cathode side.

RAFIX 16
Lamp socket W 2 x 4.6 d

Technical data see page 2 - 73



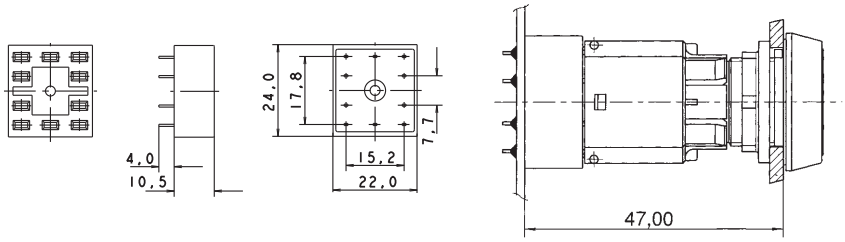
Meldeleuchte mit Lampenfassung

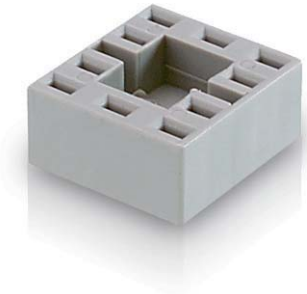
→	Rated voltage	Rated power	Lamp socket	Mounting	Mounting depth	Order no.
	60 V	1.2 W	wedge-base W 2 x 4.6d	snap into signal indicator	30.5 mm	1.71.212.011/0000

A notch on the lamp socket identifies the cathode side.

RAFIX 16
Special accessories

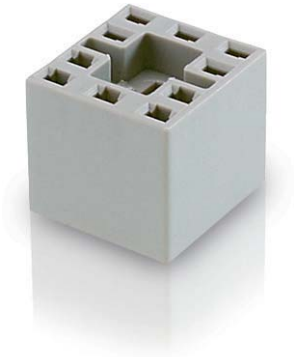
PCB plug-in socket



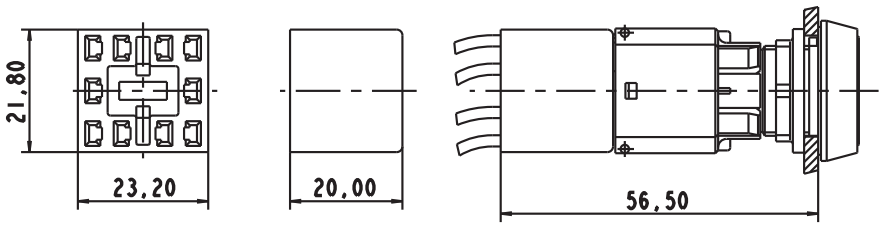


→ Contacts	Contact arrangement	Order no.
10	universal application	5.05.510.644/0000
6	2 NO, lamp socket	5.05.510.645/0000
6	2 NC, lamp socket	5.05.510.647/0000
6	1 NC, 1 NO, lamp socket	5.05.510.646/0000
4	2 NC	5.05.510.648/0000
2	lamp socket	5.05.510.649/0000

For soldering onto PCBs. The PCB carrying the plug-in sockets is plugged onto the contact blocks/lamp sockets. Additional fixing of the PCB to the contact block is not required. Solder terminals for PCB 3.5 mm long, for 1.3 mm hole.



Multipole connector



→ Dimensions	Mounting depth	Order no.
21,8 x 23,2 x 20 mm	56.5 mm	5.05.510.421/0000

Makes it possible to simultaneously connect all terminals of a contact block. Can be fitted with 2.8 mm female quick-connect terminals.

Female quick-connect terminal DIN 46340-B 2.8-1-MS

→ Description	Order no.
Female quick-connect terminal DIN 46340-B 2.8-1-MS	5.37.540.024/8622

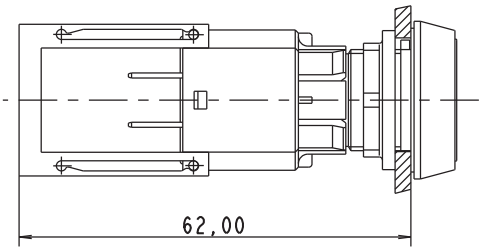
With latching detent for mating with a multipole connector.

Plug distributor

→ Description	Order no.
Plug distributor	5.37.540.029/6000

For mounting on the quick-connect terminals of contact blocks. The double number of contacts facilitates loop-through.

Protection against contact



→ Description	Order no.
Protection against contact	5.55.103.105/0100

Assembly sequence: Snap the protection against contact onto the contact block, connect wires to quick-connect terminals of contact block, pull protection against contact over the terminals; this ensures finger-proof condition to VBG 4.

Protective cover, suitable for lead seal, for pushbuttons, alignable without gaps

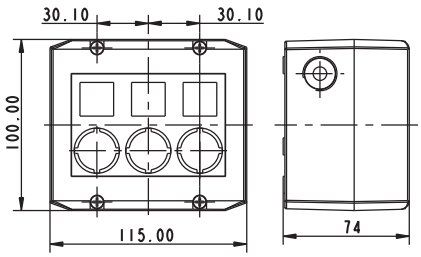
→ Description	Order no.
Protective cover, suitable for lead seal	5.05.800.055/0000

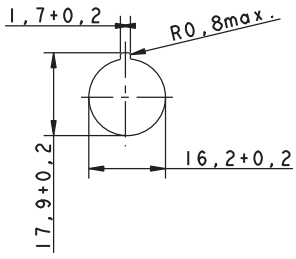
To prevent inadvertent operation. The legend is easily visible even when the cap is closed.

Fixing spanner for hexagon nut

→	Fitting for	Order no.
	RAFIX 16	5.58.002.034/0000

RAFIX
Insulating housing, Ø 16.2 mm





Panel cut-out

→	Description	Number of cut-outs	Ø	Dimensions	Order no.
	RAFIX - Insulating housing, Ø 16.2 mm, IP65, 1-module, light grey/dark grey	1	16,2 mm	100x55x74 mm	1.20.810.001/0000
	RAFIX - Insulating housing, Ø 16.2 mm, IP65, 1-module, yellow/yellow	1	16,2 mm	100x55x74 mm	1.20.810.002/0000
	RAFIX - Insulating housing, Ø 16.2 mm, IP65, 2-module, light grey/dark grey	2	16,2 mm	100x115x74 mm	1.20.820.001/0000
	RAFIX - Insulating housing, Ø 16.2 mm, IP65, 3-module, light grey/dark grey	3	16,2 mm	100x115x74 mm	1.20.830.001/0000
	RAFIX - Insulating housing, Ø 16.2 mm, IP65, 4-module, light grey/dark grey	4	16,2 mm	100x145x74 mm	1.20.840.001/0000

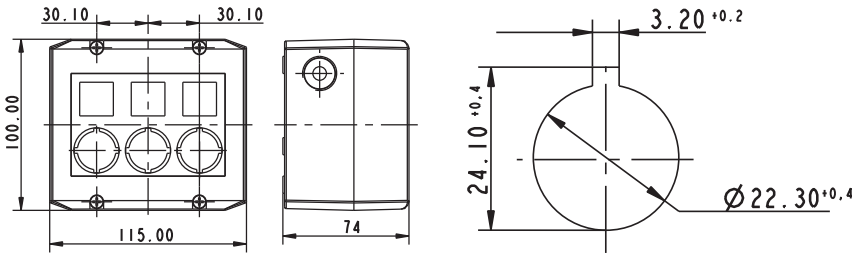
– Table (continued) –
RAFIX - Insulating housing, Ø 16.2 mm

- Attractive plastic housing to accommodate up to 4 control components
- 2 cable entries prepared: 1-,2-,3-part: M20x1.5, 4-part: M25x1.5
- Degree of protection IP65 to DIN EN 60529

- All grey housings with overlay, legending possible with legend inserts
- Wall mounting with 2 screws through housing bottom prepared
- Dimensions (feature 1) x 100 mm x 74 mm
- Accessories: 50 pre-perforated legend inserts on a DIN A4 sheet for printing with a PC printer
- Housings with other features, e.g. RAFIX 16 square, on request.

Accessoires:
Label sheet for housing (50 foil legend inserts): 5.40.451.283/0000

RAFIX
Insulating housing IP65, Ø 22.3 mm



Panel cut-out to IEC 60947-5-1

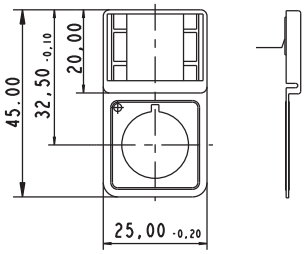
→	Description	Number of cut-outs	Ø	Dimensions	Order no.
	RAFIX - Insulating housing, Ø 22.3 mm, IP65, 1-module, light grey/dark grey	1	22,3 mm	100x55x74 mm	1.20.810.201/0000
	RAFIX - Insulating housing, Ø 22.3 mm, IP65, 1-module, yellow/yellow	1	22,3 mm	100x55x74 mm	1.20.810.202/0000
	RAFIX - Insulating housing, Ø 22.3 mm, IP65, 2-module, light grey/dark grey	2	22,3 mm	100x115x74 mm	1.20.820.201/0000
	RAFIX - Insulating housing, Ø 22.3 mm, IP65, 3-module, light grey/dark grey	3	22,3 mm	100x115x74 mm	1.20.830.201/0000
	RAFIX - Insulating housing, Ø 22.3 mm, IP65, 4-module, light grey/dark grey	4	22,3 mm	100x145x74 mm	1.20.840.201/0000

- Plastic housing to accommodate up to 4 control components
- 2 cable entries prepared: 1-,2-,3-part: M20x1.5, 4-part: M25x1.5
- Degree of protection IP65 to DIN EN 60529

- All grey housings with overlay, legending possible with legend inserts
- Wall mounting with 2 screws through housing bottom prepared
- Dimensions: (feature 2) x 100 mm x 74 mm
- Accessories: 50 pre-perforated legend inserts on a DIN A4 sheet

Accessoires:
Label sheet for housing (50 foil legend inserts): 5.40.451.283/0000

RAFIX 16
Label holder, flush, for square collar

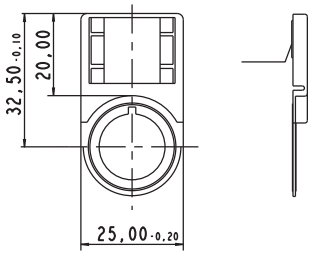


→ Description	Order no.
Label holder, flush, for square collar	5.07.620.004/0000

Legending available on request.

Accessoires:
Legend label 23 x 16 for label holder, without legend: 5.73.111.000/0000

RAFIX 16
Label holder, flush, for round collar

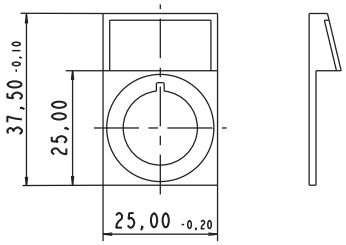


→ Description	Order no.
Label holder, flush, for round collar	5.07.620.006/0000

Legending available on request.

Accessoires:
Legend label 23 x 16 for label holder, without legend: 5.73.111.000/0000

RAFIX 16
Label holder, protruding, for square flush fitting collar



→	Description	Order no.
	Label holder, protruding, for square flush fitting collar	5.07.620.007/0000

Legending available on request.

Accessoires:
Legend label 22.1 x 11.0 mm, without legend: 5.73.112.000/0000

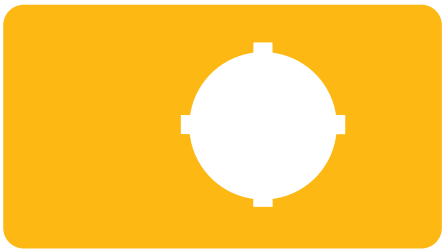
Emergency stop label, PVC adhesive, Ø 16.3 mm

→	Dimensions	inside Ø	Label	Order no.
	Ø 40 mm	16.3 mm	„NOT-HALT, EMERGENCY STOP, ARRET D´URGENCE, EMERGENZA"	5.76.204.114/0400
	Ø 40 mm	16.3 mm	4 x „NOT-HALT"	5.76.204.116/0400
	Ø 40 mm	16.3 mm	4 x „NOT-AUS"	5.76.204.118/0400
	Ø 40 mm	16.3 mm	4 x „EMERGENCY STOP"	5.76.204.120/0400
	Ø 60 mm	16.3 mm	-	5.76.204.400/0400
	Ø 60 mm	16.3 mm	1 x „NOT-AUS"	5.76.204.401/0400
	Ø 60 mm	16.3 mm	1 x „EMERGENCY STOP"	5.76.204.403/0400
	Ø 60 mm	16.3 mm	„NOT-HALT, EMERGENCY STOP, ARRET D´URGENCE, EMERGENZA"	5.76.204.106/0400
	Ø 60 mm	16.3 mm	4 x „NOT-HALT"	5.76.204.108/0400

– Table (continued) –
Emergency stop label, PVC adhesive, Ø 16.3 mm

→	Dimensions	inside Ø	Label	Order no.
	Ø 60 mm	16.3 mm	4 x „NOT-AUS"	5.76.204.110/0400
	Ø 60 mm	16.3 mm	4 x „EMERGENCY STOP"	5.76.204.112/0400

Emergency stop label, Ø 22.3 mm

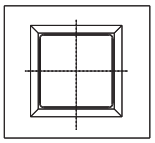


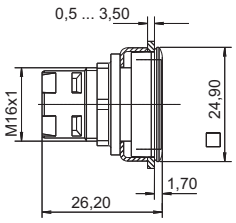
→	Dimensions	inside Ø	Label	Order no.
	36 x 64 mm	22.3 mm	-	5.76.205.011/0400
	Ø 40 mm	22.3 mm	„NOT-HALT, EMERGENCY STOP, ARRET D´URGENCE, EMERGENZA"	5.76.204.115/0400
	Ø 40 mm	22.3 mm	4 x „NOT-HALT"	5.76.204.117/0400
	Ø 40 mm	22.3 mm	4 x „NOT-AUS"	5.76.204.119/0400
	Ø 40 mm	22.3 mm	4 x „EMERGENCY STOP"	5.76.204.121/0400
	Ø 60 mm	22.3 mm	1 x „NOT-AUS"	5.76.207.001/0400
	Ø 60 mm	22.3 mm	„EMERGENCY-STOP / ARRET D'URGENCE"	5.76.207.002/0400
	Ø 60 mm	22.3 mm	1 x „NOT-AUS"	5.76.204.101/0400
	Ø 60 mm	22.3 mm	1 x „ARRET D´URGENCE"	5.76.204.102/0400
	Ø 60 mm	22.3 mm	1 x „EMERGENCY STOP"	5.76.204.103/0400
	Ø 60 mm	22.3 mm	„NOT-HALT, EMERGENCY STOP, ARRET D´URGENCE, EMERGENZA"	5.76.204.107/0400
	Ø 60 mm	22.3 mm	4 x „NOT-HALT"	5.76.204.109/0400
	Ø 60 mm	22.3 mm	4 x „NOT-AUS"	5.76.204.111/0400
	Ø 60 mm	22.3 mm	4 x „EMERGENCY STOP"	5.76.204.113/0400

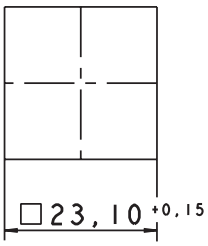
RAFIX 16
Blanking cap with sealing and threaded ring, Ø 16.2 mm

→ Description	Order no.
Blanking cap complete with sealing disc and ring nut, square	5.05.800.049/0100
Blanking cap complete with sealing disc and ring nut, round	5.05.800.050/0100
Blanking cap complete with sealing disc and ring nut, square, alignable without gaps	5.05.800.051/0100

RAFIX 16 F
Blanking cap







Panel cut-out

→ Installation dimensions	Dimenions	Color	Order no.
23,1 x 23,1 mm	24,9 x24,9	black	5.05.800.063/0000