



General Data

RAFIX 16 control component range

- For a mounting hole diameter of 16.2 mm to IEC 60947, resp. Ø 23.1 mm for RAFIX 16F
- 250V/6A max.
- Water-jet proof IP65
- Contact blocks: Gold and silver contacts with quick-connect terminals 2.8 x 0.8 mm; Option: PCB plug-in socket
- 3 collar shapes, low-profile design
- The lamps of the pushbuttons can be replaced from the front or rear.
- The contact blocks snap directly onto the actuators without a coupling element and can be easily removed by turning = cost reducing assembly.

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

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General information

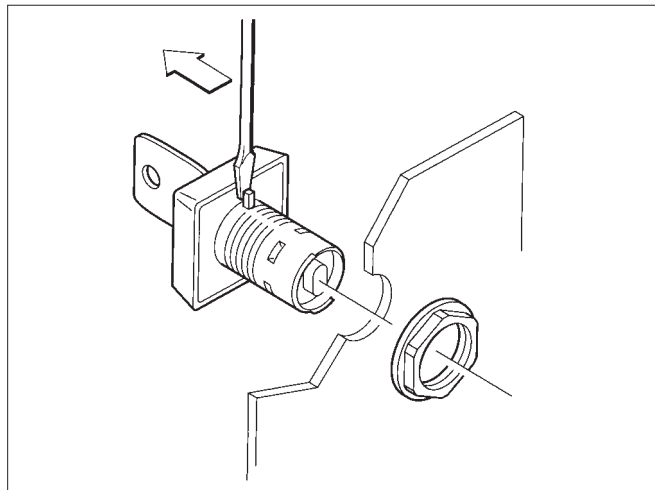
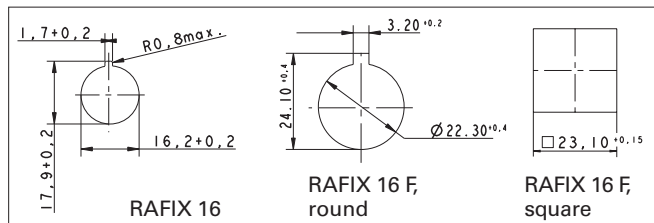
RAFIX 16 is a complete control component series and enables you to design attractive control panels with a minimum of space requirements and at the same time sufficiently large actuating areas.



RAFIX 16 F, round

Actuators

Mounting hole according to IEC 60947



- 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

- Standard: for actuators with one-way operation
 - latching function
 - momentary function
- Universal: for E-stop pushbuttons and for actuators with two-way operation, e. g. selector switches
 - momentary function
- AS-Interface

Contact material

- Silver contacts for mains voltage
- Gold contacts for electronic circuits

Illumination

- Wedge base lamp or LED, socket W 2 x 4.6 d

Assembly

- Single-handed cost-effective assembly method
- Panel thickness 0.5 ... 5 mm (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

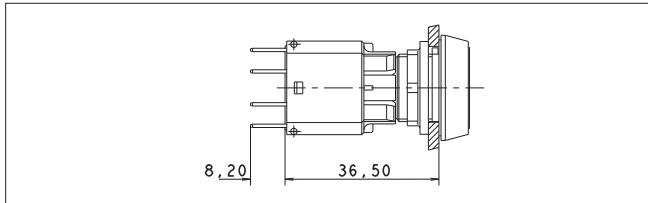
Temperature range

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

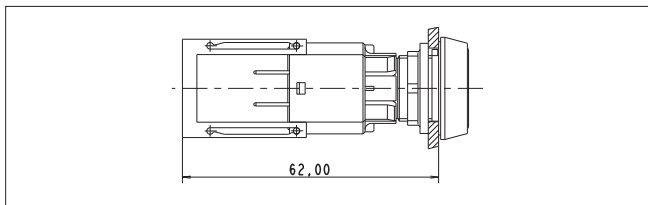
Dimensional Drawings RAFIX 16

Actuator with contact block resp. signal indicator with lamp socket

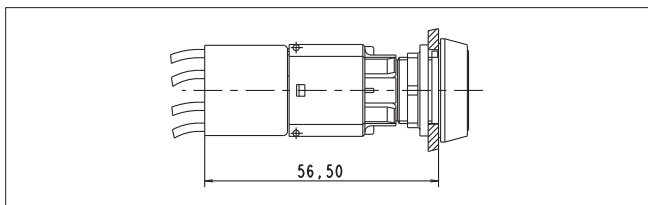
Contact block with quick-connect terminals and RAFIX 16 pushbutton



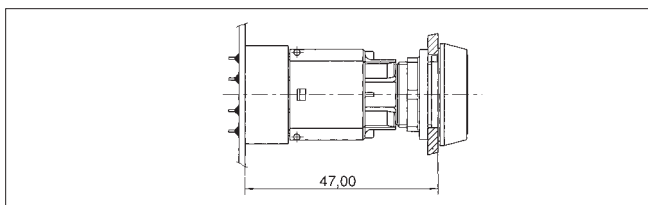
... with protection cage



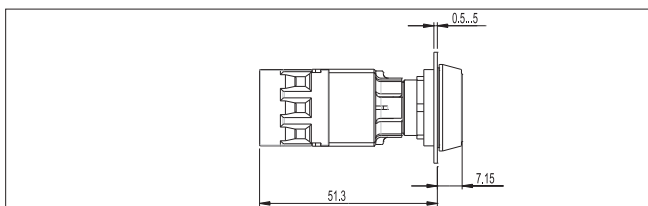
... with multipole connector



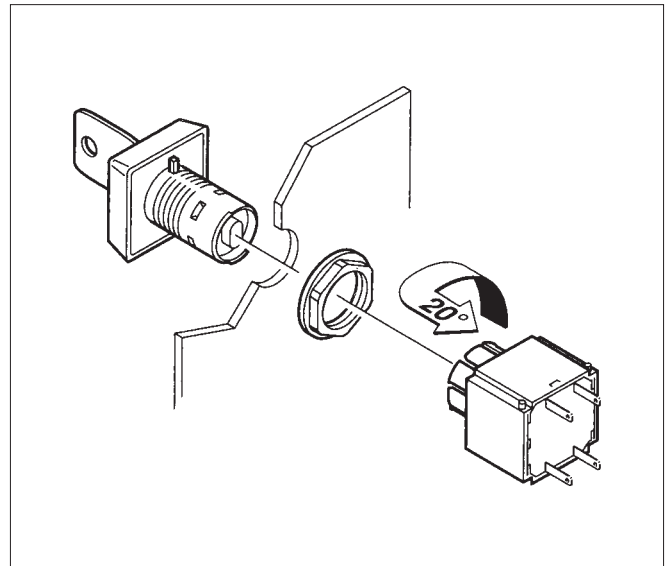
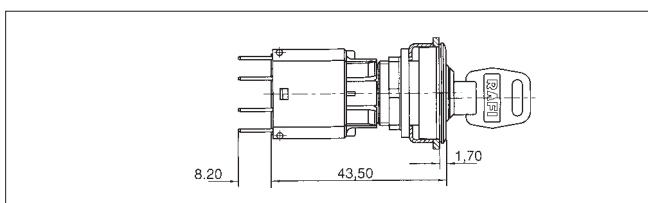
... with PCB plug-in socket



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.

With quick-connect terminals

Contact cables with quick connector

With screw terminals

Push in cables and fix by screwing

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. For order numbers and standard legend, refer to the section "Legending".

• Lenses

Non-illuminated push-buttons and mushroom-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.

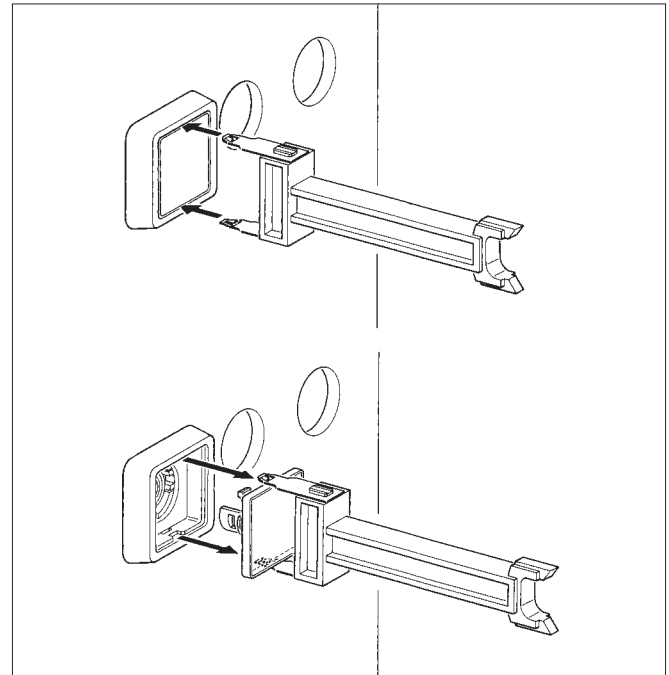
RAFI can also provide you custom legending. Price and delivery on request.

Lamp replacement from front

Use the disassembly tool to grasp the actuator body and pull it towards the front with the lens.

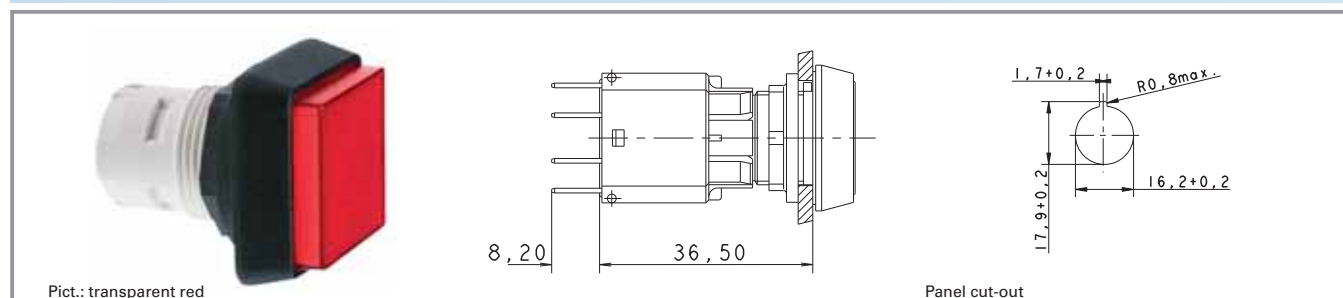
Alternatively, you can use a screwdriver in place of the disassembly tool. In this case, insert the screwdriver between actuator body and collar and carefully raise the actuator body.

Replace the lamp using a lamp extractor or a suitable insulation sleeve.



Lamp replacement from front

RAFIX 16 - Pushbutton



2

Technical Data

General information

Actuator	see order block
Colour 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
Contact function	according to contact block
Contact arrangement	according to contact block
Illumination	see order block

Mechanical characteristics

Operating travel	3 mm
Robustness min.	100 N

Other specifications

Operating life (operations)	2,000,000
Degree of protection from front side	IP65
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 resistance	acc. to IEC 60068-2 -14, -30, -33 and -78

Approvals



IEC 61058



C22.2 No. 14-M91

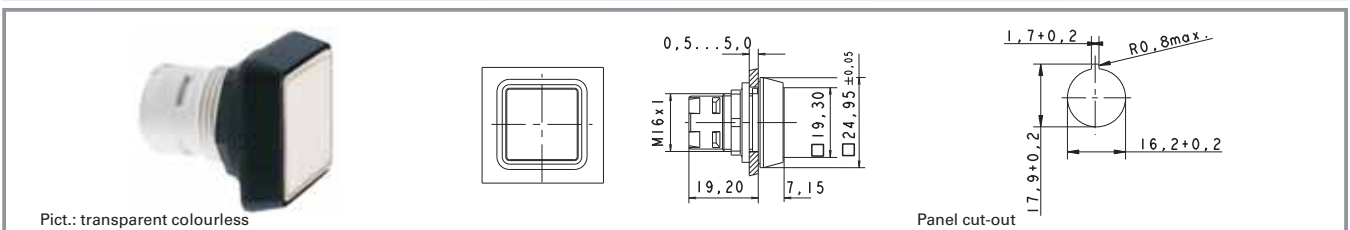
Typical accessories RAFIX 16 - Pushbutton

Description	Photo	Order no.	Additional accessories see page
RAFIX 16 - Standard contact block, 1 NC + 1 NO, momentary, silver contacts, with lamp socket		1.20.122.001/0000	2 - 82
RAFIX 16 - Standard contact block, 1 NC + 1 NO, momentary, gold contacts, with lamp socket		1.20.122.011/0000	2 - 76
RAFIX 16 - Standard contact block, 1 NC + 1 NO, momentary, silver contacts, without lamp socket		1.20.122.021/0000	2 - 82

Typical accessories RAFIX 16 - Pushbutton

Description	Photo	Order no.	Additional accessories see page
RAFIX 16 - Standard contact block, 1 NC + 1 NO, momentary, gold contacts, without lamp socket		1.20.122.031/0000	2 - 76
RAFIX 16 - Standard contact block, silver contacts, with lamp socket, screw terminals		1.20.122.101/0000	2 - 83
RAFIX 16 - Standard contact block, gold contacts, with lamp socket, screw terminals		1.20.122.111/0000	2 - 77
RAFIX 16 - Contact block AS-I, standard		1.20.130.101/0000	2 - 87
LED W 2 x 4.6d superbright, white, 24 V		1.90.690.365/0000	5 - 14
Disassembly tool for LUMOTAST 25, RAFIX 16		5.05.800.042/0000	2 - 94
Label holder, flush, for square collar		5.07.620.004/0000	2 - 96
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 95
Legend insert, blank, use only for transparent lenses		5.70.635.000/2000	

RAFIX 16 - Pushbutton, flush lens, square collar



Illumination	Colour of lens	Order no. complete	Order no. single parts	
			Housing	Lens
yes	transparent colourless	1.30.070.001/1002	1.30.070.501/0000	5.49.077.011/1002
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
no	opaque black	1.30.070.251/0100	1.30.070.501/0000	5.49.077.011/0104
no	opaque white	1.30.070.251/0200	1.30.070.501/0000	5.49.077.011/0200
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

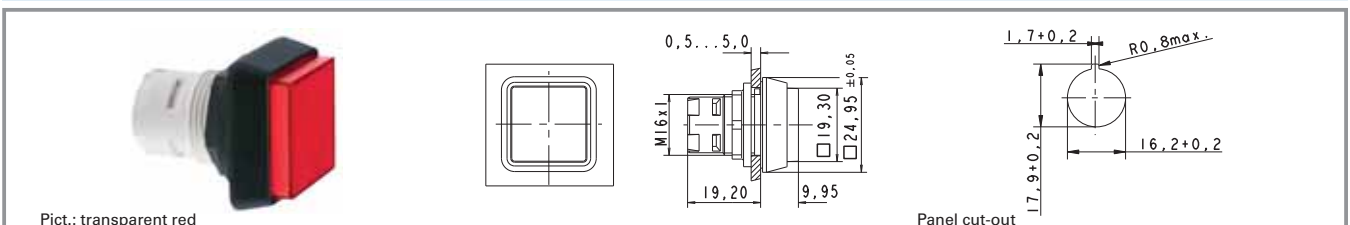
Technical data see page 2 - 8

Accessoires:

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

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

RAFIX 16 - Pushbutton, protruding lens, square collar



Illumination	Colour of lens	Order no. complete	Order no. single parts	
			Housing	Lens
yes	transparent colourless	1.30.070.051/1002	1.30.070.551/0000	5.49.077.012/1002
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
no	opaque black	1.30.070.301/0100	1.30.070.801/0000	5.46.657.442/0100
no	opaque red	1.30.070.301/0300	1.30.070.801/0000	5.46.657.442/0300

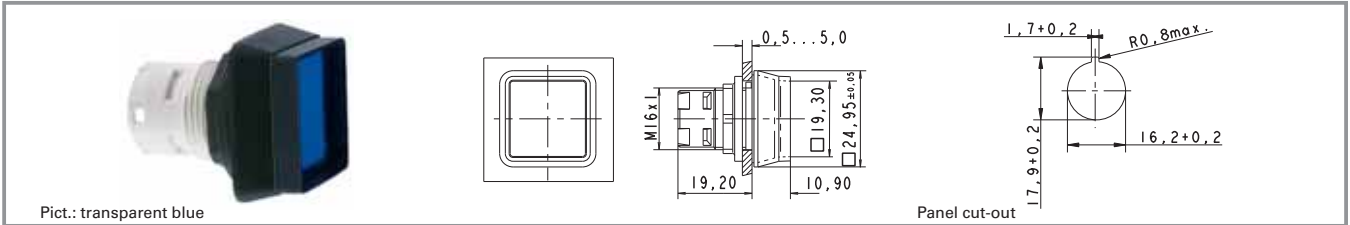
Technical data see page 2 - 8

Accessoires:

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

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

RAFIX 16 - Pushbutton, protruding collar, square collar



Illumination	Colour of lens	Order no. complete	Order no. single parts	
			Housing	Lens
yes	transparent colourless	1.30.070.101/1002	1.30.070.601/0000	5.49.077.011/1002
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

Technical data see page 2 - 8

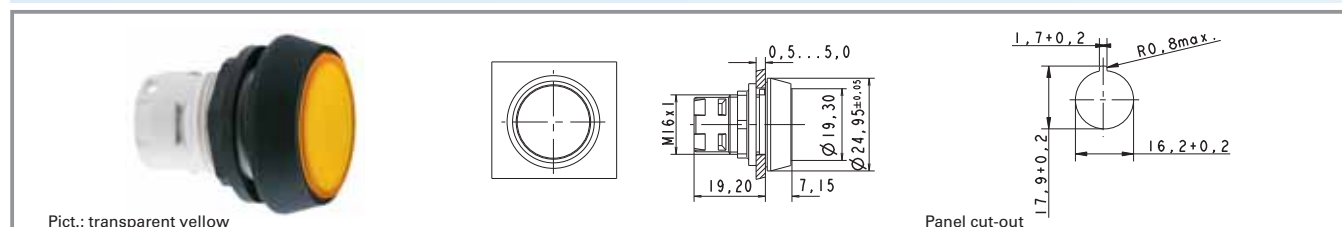
Accessoires:

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

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.

RAFIX 16 - Pushbutton, flush lens, round collar



Illumination	Colour of lens	Order no. complete	Order no. single parts	
			Housing	Lens
yes	transparent colourless	1.30.070.021/1002	1.30.070.521/0000	5.49.259.017/1002
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
no	opaque black	1.30.070.271/0100	1.30.070.521/0000	5.49.259.017/0104
no	opaque white	1.30.070.271/0200	1.30.070.521/0000	5.49.259.017/0200
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	5.49.259.017/0518
no	opaque blue	1.30.070.271/0600	1.30.070.521/0000	5.49.259.017/0612

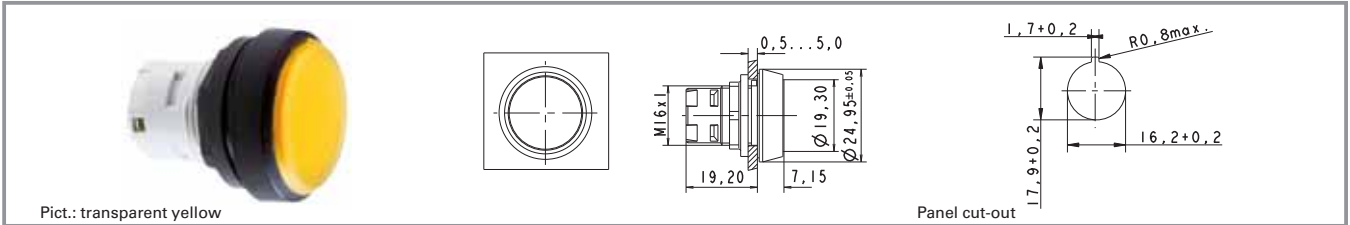
Technical data see page 2 - 8

Accessoires:

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

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

RAFIX 16 - Pushbutton IP66 with protective cap



Illumination	Colour of lens	Order no. complete	Order no. single parts	
			Housing	Lens
yes	transparent colourless	1.30.070.026/1002	-	-
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	-	-

Technical data see page 2 - 8

Accessoires:

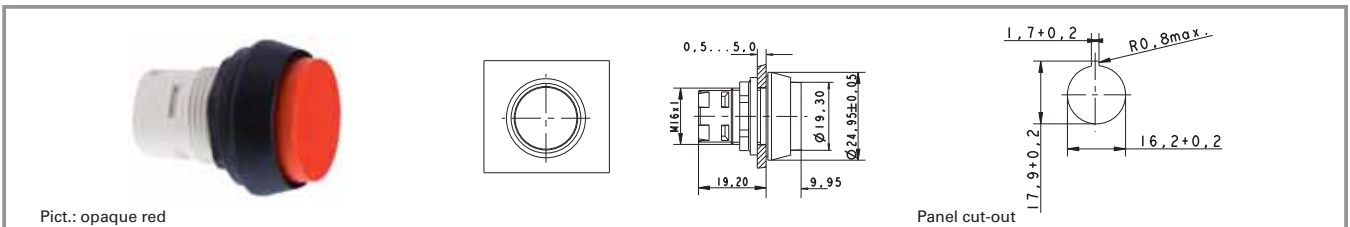
Legend insert, blank, use only for transparent lenses: **5.70.637.000/2000**

Pushbutton for use in hostile environments. A transparent protective cap ensures a degree of protection of IP 66 to DIN/IEC.

Operating life: 500,000 operations.

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

RAFIX 16 - Pushbutton, protruding lens, round collar



Illumination	Colour of lens	Order no. complete	Order no. single parts	
			Housing	Lens
yes	transparent colourless	1.30.070.071/1002	1.30.070.571/0000	5.49.259.018/1002
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
no	opaque black	1.30.070.321/0100	-	-
no	opaque red	1.30.070.321/0300	-	-

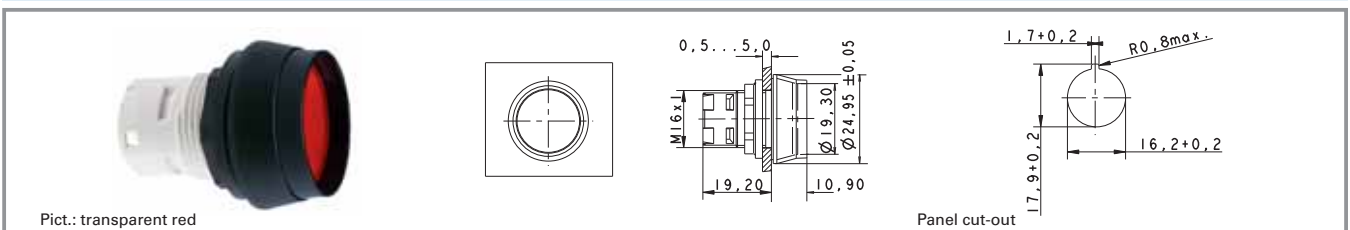
Technical data see page 2 - 8

Accessoires:

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

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

RAFIX 16 - Pushbutton, protruding collar, round collar



Illumination	Colour of lens	Order no. complete	Order no. single parts	
			Housing	Lens
yes	transparent colourless	1.30.070.121/1002	1.30.070.621/0000	5.49.259.017/1002
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

Technical data see page 2 - 8

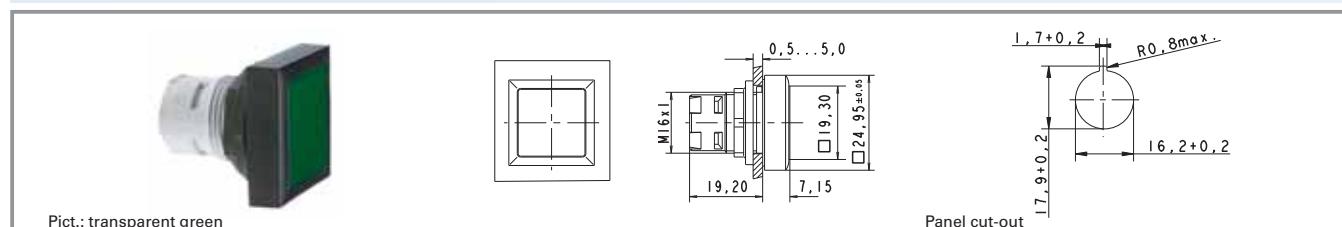
Accessoires:

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

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.

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



Illumination	Colour of lens	Order no. complete	Order no. single parts	
			Housing	Lens
yes	transparent colourless	1.30.070.201/1002	1.30.070.701/0000	5.49.077.011/1002
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
no	opaque black	1.30.070.451/0100	1.30.070.701/0000	5.49.077.011/0104
no	opaque white	1.30.070.451/0200	1.30.070.701/0000	5.49.077.011/0200
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

Technical data see page 2 - 8

Accessoires:

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

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

RAFIX 16 - Selector switch



2

General Data

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

RAFIX
16

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
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 resistance	acc. to IEC 60068-2 -14, -30, -33 and -78

Approvals



IEC 61058



C22.2 No. 14-M91

Typical accessories RAFIX 16 - Selector switch

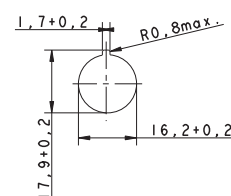
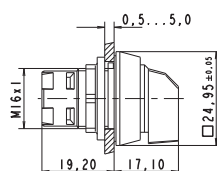
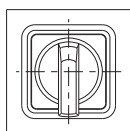
Description	Photo	Order no.	Additional accessories see page
RAFIX 16 - Universal contact block, 1 NC + 1 NO, momentary, silver contacts, with lamp socket		1.20.123.001/0000	2 - 84
RAFIX 16 - Universal contact block, 1 NC + 1 NO, momentary, gold contacts, with lamp socket		1.20.123.011/0000	2 - 78
RAFIX 16 - Universal contact block, gold contacts, with lamp socket, screw terminals		1.20.123.111/0000	2 - 79
RAFIX 16 - Universal contact block, silver contacts, without lamp socket, screw terminals		1.20.123.121/0000	2 - 85
Label holder, flush, for square collar		5.07.620.004/0000	2 - 96
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 95

For suitable LEDs, filament lamps and other contact blocks, refer to the chapter „RAFIX 16 contact blocks“; for additional accessories, refer to the chapter „RAFIX 16 special accessories“.

RAFIX 16 - Selector switch, square collar



Pict.: Handle marking translucent



Panel cut-out

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

Technical data see page 2 - 18

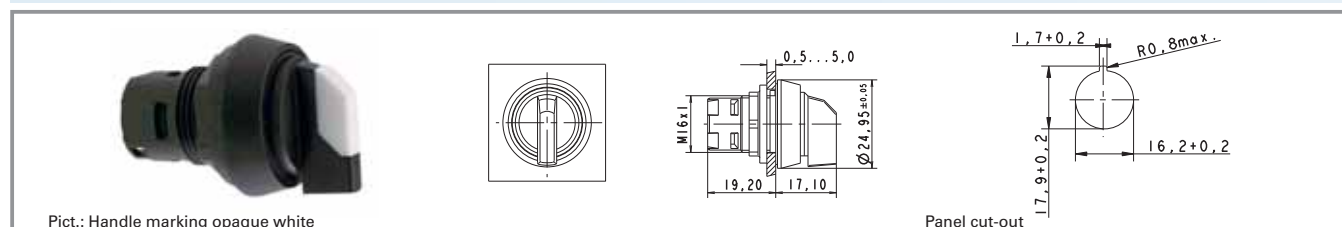
Only use contact blocks with „momentary“ contact function.

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

Other contact functions and handle marking colours available on request.

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

RAFIX 16 - Selector switch, round collar



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

Technical data see page 2 - 18

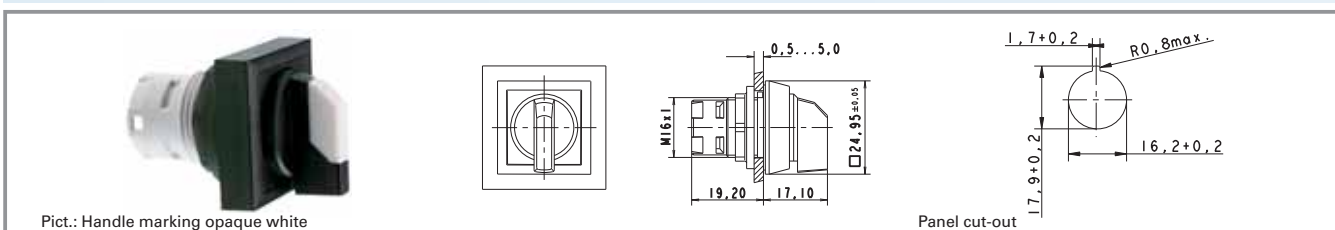
Only use contact blocks with „momentary“ contact function.

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

Other contact functions and handle marking colours available on request.

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

RAFIX 16 - Selector switch, square collar, alignable without gaps



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

Technical data see page 2 - 18

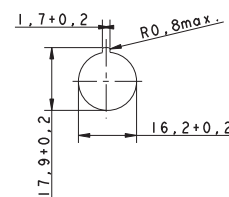
Only use contact blocks with „momentary“ contact function.

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

Other contact functions and handle marking colours available on request.

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

RAFIX 16 - Keylock switch MICROMECC



Panel cut-out

2

RAFIX
16

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
Operation temperature min. -25 °C
Ambient temp. operating max. +70 °C
without lamp /LED
Storage temperature min. -40 °C
Storage temperature max. +85 °C
Environmental resistance acc. to IEC 60068-2
-14, -30, -33 and -78

Approvals



IEC 61058



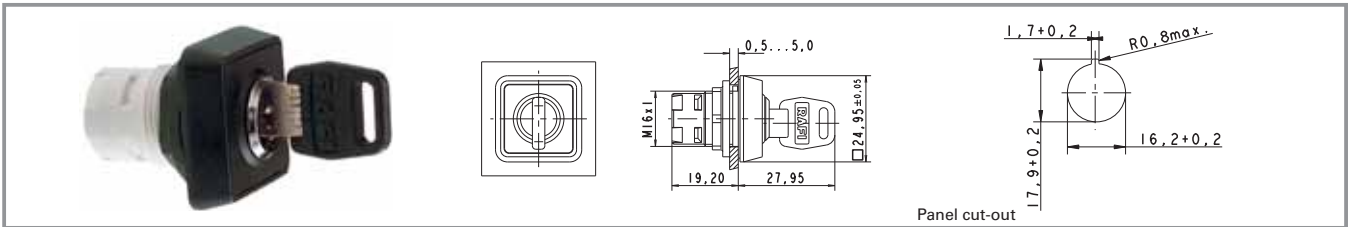
C22.2 No. 14-M91

Typical accessories RAFIX 16 - Keylock switch MICROMECC

Description	Photo	Order no.	Additional accessories see page
RAFIX 16 - Universal contact block, 1 NC + 1 NO, momentary, silver contacts, without lamp socket		1.20.123.021/0000	2 - 84
RAFIX 16 - Universal contact block, 1 NC + 1 NO, momentary, gold contacts, without lamp socket		1.20.123.031/0000	2 - 78
RAFIX 16 - Universal contact block, gold contacts, with lamp socket, screw terminals		1.20.123.111/0000	2 - 79
RAFIX 16 - Universal contact block, silver contacts, without lamp socket, screw terminals		1.20.123.121/0000	2 - 85
RAFIX 16 - Contact block AS-I, standard		1.20.130.101/0000	2 - 87
Label holder, flush, for square collar		5.07.620.004/0000	2 - 96
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 95
Spare key, for single action, e.g. 1 x 90° (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	

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 - Keylock switch MICROMECC, square collar

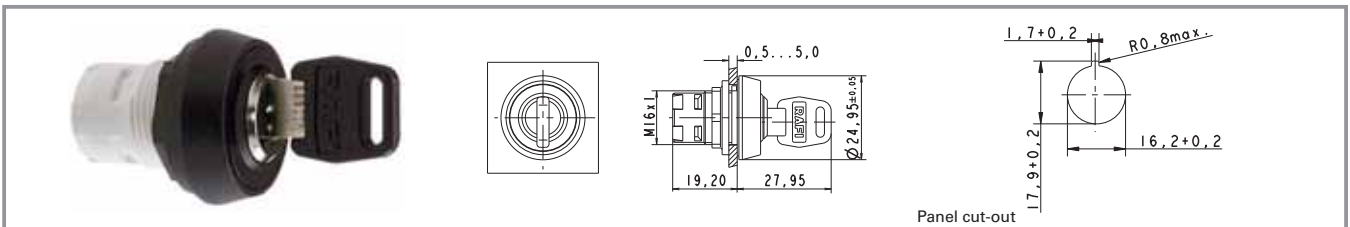


Contact function	Rotating angle	Key removal position	Order no.
momentary	1 x 40°	0	1.30.076.501/0000
momentary	2 x 40°	0	1.30.076.701/0000
latching	1 x 90°, form L	0	1.30.076.001/0000
latching	1 x 90°, form L	0+1	1.30.076.051/0000
latching	1 x 90°, form V	0	1.30.076.101/0000
latching	1 x 90°, form V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

Technical data see page 2 - 24

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

RAFIX 16 - Keylock switch MICROMECC, round collar

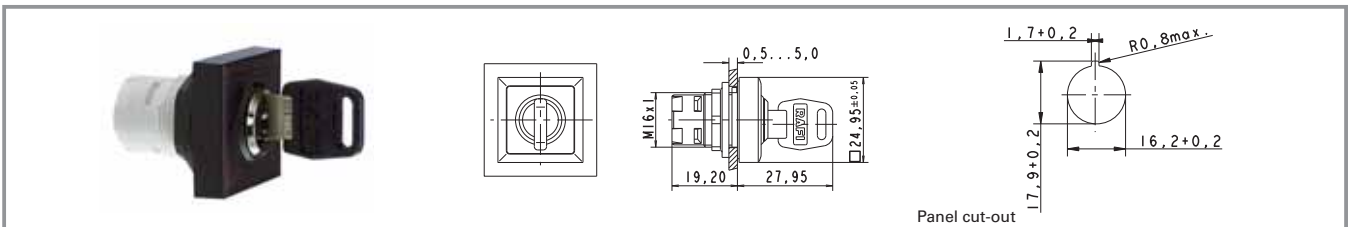


Contact function	Rotating angle	Key removal position	Order no.
momentary	1 x 40°	0	1.30.076.521/0000
momentary	2 x 40°	0	1.30.076.721/0000
latching	1 x 90°, form L	0	1.30.076.021/0000
latching	1 x 90°, form L	0+1	1.30.076.071/0000
latching	1 x 90°, form V	0	1.30.076.121/0000
latching	1 x 90°, form V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

Technical data see page 2 - 24

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

RAFIX 16 - Keylock switch MICROMECC, square collar, alignable without gaps



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

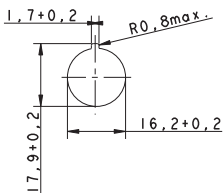
Technical data see page 2 - 24

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

RAFIX 16 - Mushroom-headed pushbutton



Pict.: red



Panel cut-out

2

RAFIX
16

Technical Data

General information

Actuator	mushroom
Colour 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
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 resistance	acc. to IEC 60068-2 -14, -30, -33 and -78

Approvals



IEC 61058



C22.2 No. 14-M91

Typical accessories RAFIX 16 - Mushroom-headed pushbutton

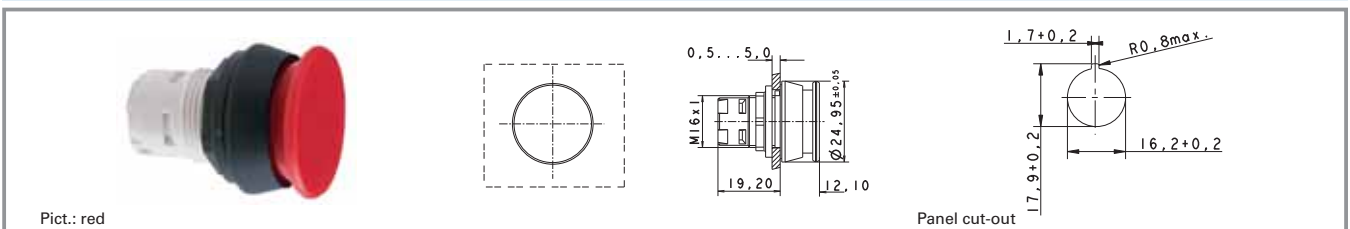
Description	Photo	Order no.	Additional accessories see page
RAFIX 16 - Standard contact block, 1 NC + 1 NO, momentary, silver contacts, without lamp socket		1.20.122.021/0000	2 - 82
RAFIX 16 - Standard contact block, 1 NC + 1 NO, momentary, gold contacts, without lamp socket		1.20.122.031/0000	2 - 76
RAFIX 16 - Standard contact block, silver contacts, without lamp socket, screw terminals		1.20.122.121/0000	2 - 83

Typical accessories RAFIX 16 - Mushroom-headed pushbutton

Description	Photo	Order no.	Additional accessories see page
RAFIX 16 - Standard contact block, gold contacts, without lamp socket, screw terminals		1.20.122.131/0000	2 - 77
RAFIX 16 - Contact block AS-I, standard		1.20.130.101/0000	2 - 87
Label holder, flush, for square collar		5.07.620.004/0000	2 - 96
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 95

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 - Mushroom-headed pushbutton, round collar

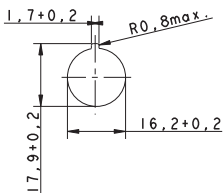


Illumination	Colour of mushroom	Order no.
no	opaque black	1.30.071.021/0100
no	opaque red	1.30.071.021/0300

Technical data see page 2 - 30

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

RAFIX 16 - Emergency stop pushbutton



Panel cut-out

2

RAFIX
16

Technical Data

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

Approvals



IEC 61058



C22.2 No. 14-M91

IEC 60204, IEC 73

Typical accessories RAFIX 16 - Emergency stop pushbutton

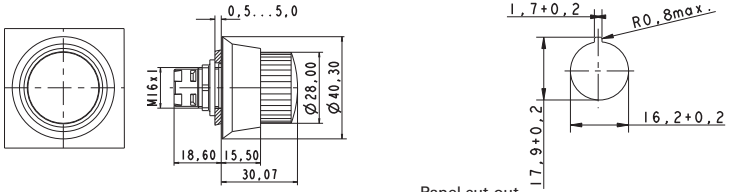
Description	Photo	Order no.	Additional accessories see page
RAFIX 16 - Universal contact block, 1 NC, momentary, silver contacts, without lamp socket		1.20.123.022/0000	2 - 84

Typical accessories RAFIX 16 - Emergency stop pushbutton

Description	Photo	Order no.	Additional accessories see page
RAFIX 16 - Universal contact block, 1 NC, momentary, gold contacts, without lamp socket		1.20.123.032/0000	2 - 78
RAFIX 16 - Universal contact block, silver contacts, without lamp socket, screw terminals		1.20.123.125/0000	2 - 85
RAFIX 16 - Universal contact block, gold contacts, without lamp socket, screw terminals		1.20.123.135/0000	2 - 79
RAFIX 16 - Contact block AS-I, E-stop, coupling contact		1.20.130.001/0000	2 - 89
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 95
Adhesive label yellow, round 16.3 / 60 mm, with legend „NOT-HALT, EMERGENCY STOP, ARRET D'URGENCE, EMERGENZA“		5.76.204.106/0400	2 - 98, 5 - 28
Adhesive label yellow, round 16.3 / 40 mm, with legend „NOT-HALT, EMERGENCY STOP, ARRET D'URGENCE, EMERGENZA“		5.76.204.114/0400	2 - 98, 5 - 28
Adhesive label yellow, round 16.3 / 60 mm, without legend		5.76.204.400/0400	2 - 98, 5 - 28

For suitable LEDs, filament lamps and other contact blocks, refer to the chapter „RAFIX 16 contact blocks“; for additional accessories, refer to the chapter „RAFIX 16 special accessories“.

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

  Panel cut-out		
Illumination	Colour of mushroom	Order no.
no	opaque red, collar yellow	1.30.074.821/0000

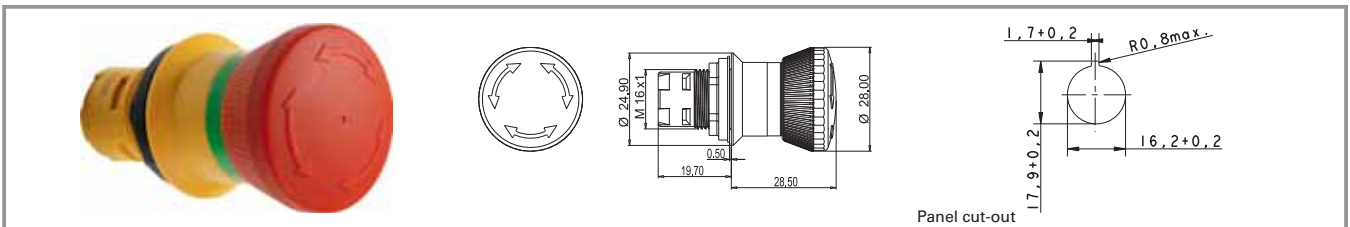
Technical data see page 2 - 32

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 - Safety emergency stop pushbutton, round collar, conical, dupe-proof, non-blocking



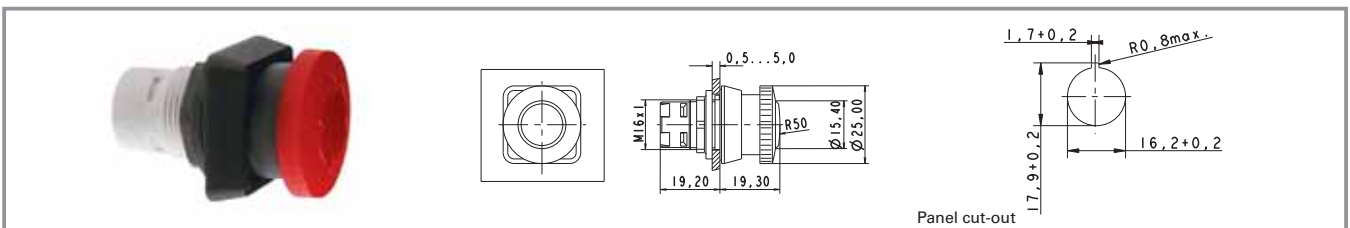
Illumination	Colour of mushroom	Order no.
no	opaque red	1.30.074.281/0300

Technical data see page 2 - 32

Only use universal contact blocks.

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

RAFIX 16 - Emergency stop pushbutton, square collar, illuminable

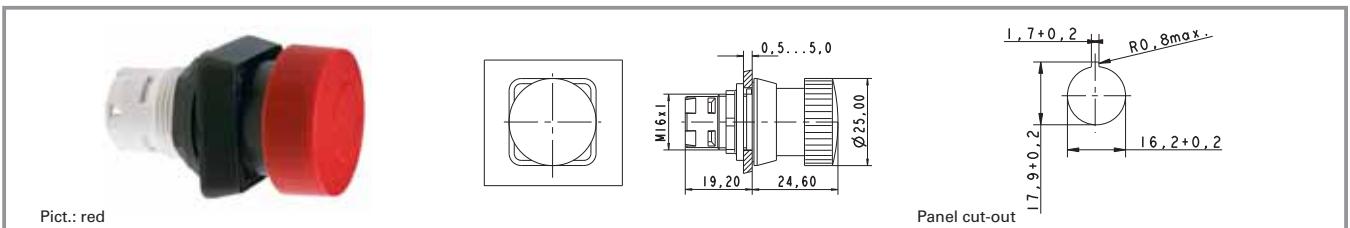


Illumination	Colour of mushroom	Order no.
yes	translucent red	1.30.074.501/0304

Technical data see page 2 - 32

Only use universal contact blocks.

RAFIX 16 - Emergency stop pushbutton, square collar, not illuminable



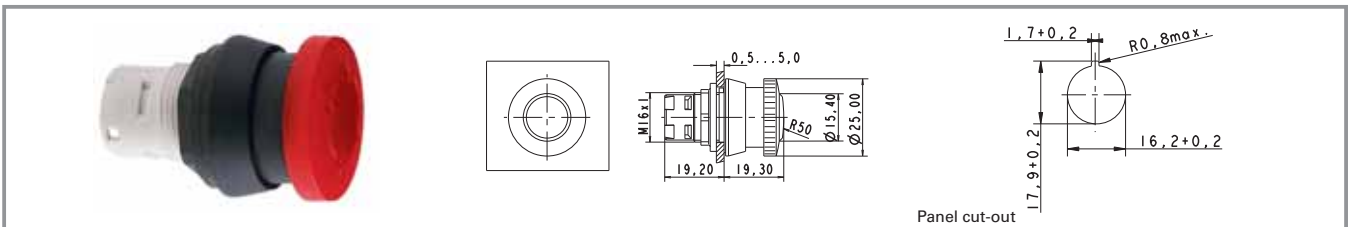
Illumination	Colour of mushroom	Order no.
no	opaque red	1.30.074.101/0301

Technical data see page 2 - 32

Only use universal contact blocks.

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

RAFIX 16 - Emergency stop pushbutton, round collar, illuminable

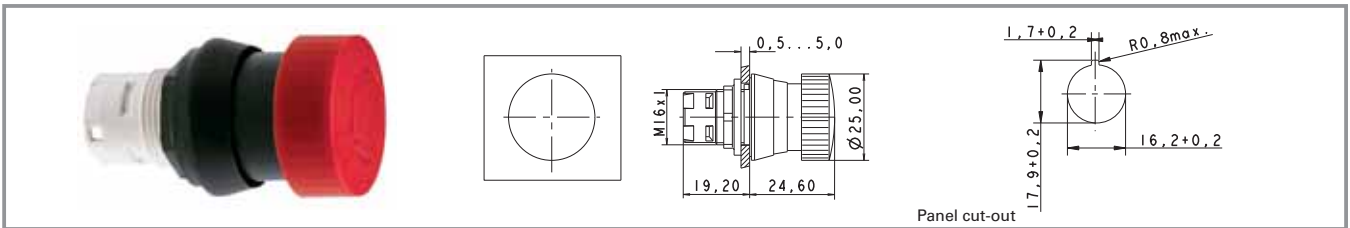


Illumination	Colour of mushroom	Order no.
yes	translucent red	1.30.074.521/0304

Technical data see page 2 - 32

Only use universal contact blocks.

RAFIX 16 - Emergency stop pushbutton, round collar, not illuminable



Illumination	Colour of mushroom	Order no.
no	opaque red	1.30.074.121/0301

Technical data see page 2 - 32

Only use universal contact blocks.

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

RAFIX 16 - Toggle switch



2

RAFIX
16

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 min. 100 N

Other specifications

Degree of protection from front side IP65
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 resistance acc. to IEC 60068-2 -14, -30, -33 and -78
Operating life (operations) 300,000

Approvals



IEC 61058



C22.2 No. 14-M91

Typical accessories RAFIX 16 - Toggle switch

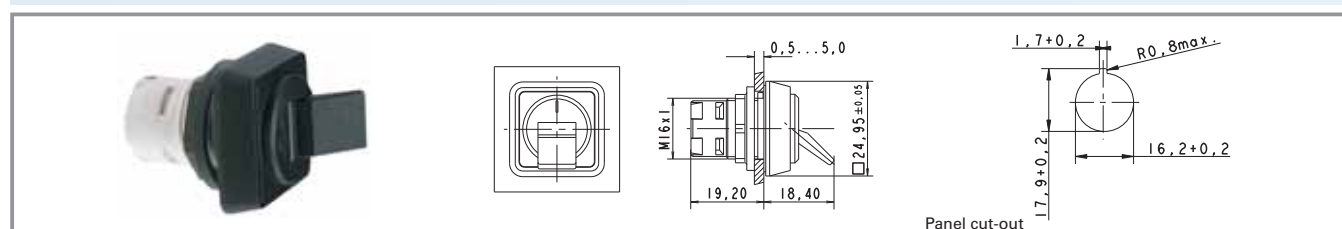
Description	Photo	Order no.	Additional accessories see page
RAFIX 16 - Standard contact block, 1 NC + 1 NO, momentary, silver contacts, without lamp socket		1.20.122.021/0000	2 - 82
RAFIX 16 - Standard contact block, 1 NC + 1 NO, momentary, gold contacts, without lamp socket		1.20.122.031/0000	2 - 76
RAFIX 16 - Standard contact block, silver contacts, without lamp socket, screw terminals		1.20.122.121/0000	2 - 83
RAFIX 16 - Standard contact block, gold contacts, without lamp socket, screw terminals		1.20.122.131/0000	2 - 77

Typical accessories RAFIX 16 - Toggle switch

Description	Photo	Order no.	Additional accessories see page
RAFIX 16 - Contact block AS-I, standard		1.20.130.101/0000	2 - 87
Label holder, flush, for square collar		5.07.620.004/0000	2 - 96
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 95

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

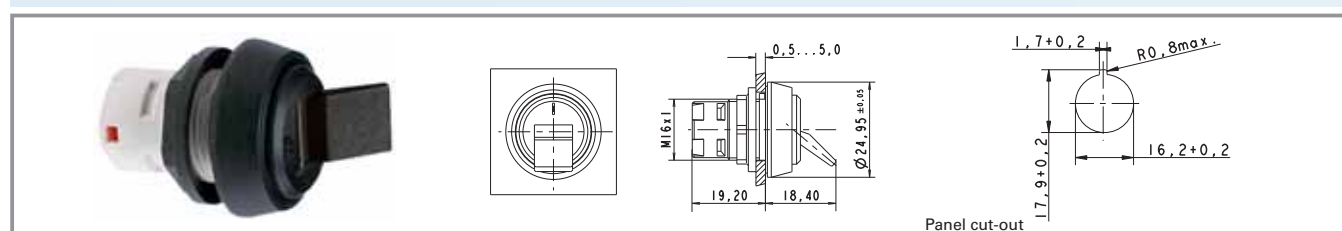


Contact function	Illumination	Order no.
latching	no	1.30.075.001/0104

Technical data see page 2 - 36

Only use contact blocks with „momentary“ contact function.

RAFIX 16 - Toggle switch, round collar

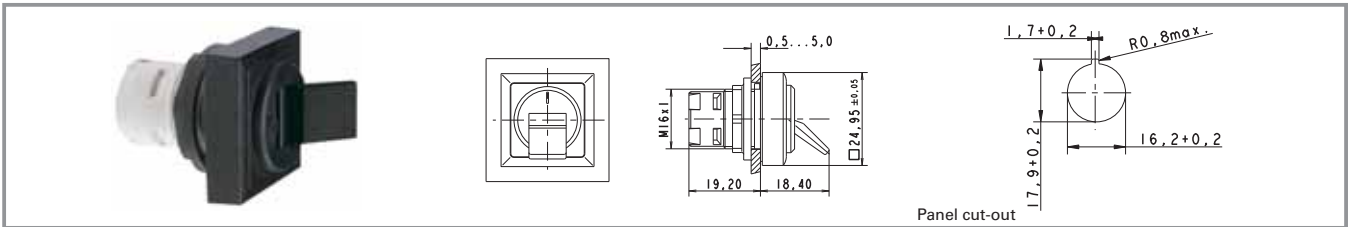


Contact function	Illumination	Order no.
latching	no	1.30.075.021/0104

Technical data see page 2 - 36

Only use contact blocks with „momentary“ contact function.

RAFIX 16 - Toggle switch, square collar, alignable without gaps



Contact function	Illumination	Order no.
latching	no	1.30.075.041/0104

Technical data see page 2 - 36

Only use contact blocks with „momentary“ contact function.

2

RAFIX
 16

RAFIX 16 - Potentiometer drive



2

General Data

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.

RAFIX
 16

Technical Data

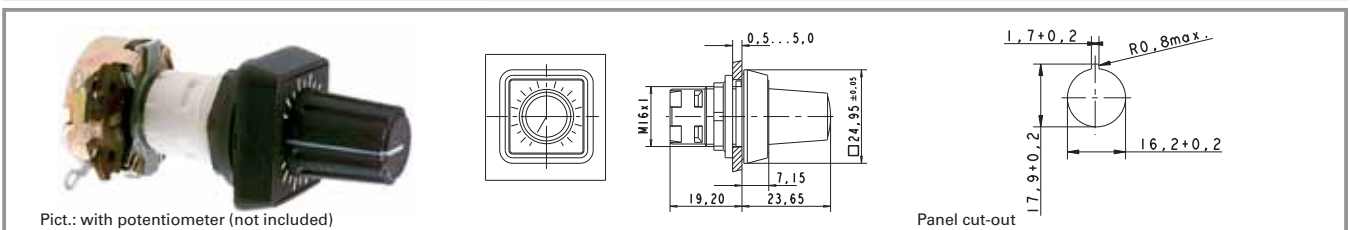
General information		Other specifications	
Form of lens	handle	Degree of protection from front side	IP65
Colour of handle	black	Operation temperature min.	-25 °C
Form of collar	see order block	Ambient temp. operating max.	+70 °C
Dimensions		Storage temperature min.	-40 °C
Collar dimensions	see order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

Typical accessories RAFIX 16 - Potentiometer drive

Description	Photo	Order no.	Additional accessories see page
Label holder, flush, for square collar		5.07.620.004/0000	2 - 96
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 95

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

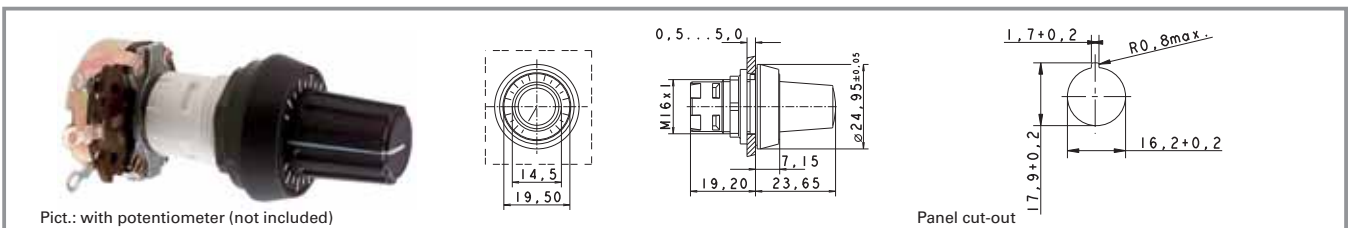
RAFIX 16 - Potentiometer drive, square collar



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

Technical data see page 2 - 40

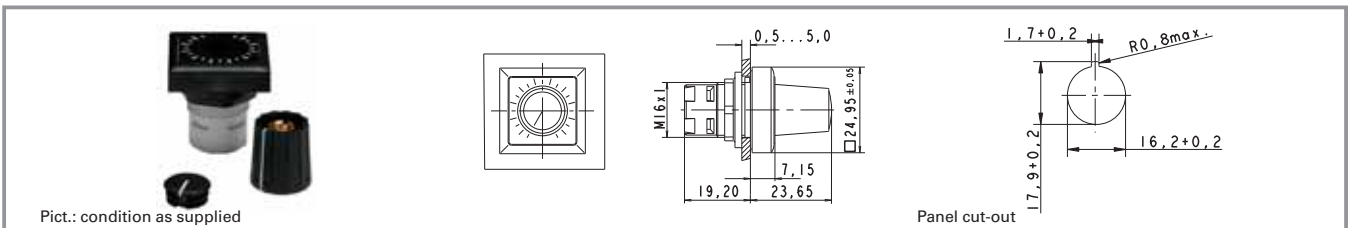
RAFIX 16 - Potentiometer drive, round collar



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

Technical data see page 2 - 40

RAFIX 16 - Potentiometer drive, square collar, alignable without gaps



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

Technical data see page 2 - 40

RAFIX 16 - Buzzer



Panel cut-out

2

RAFIX
16

Technical Data

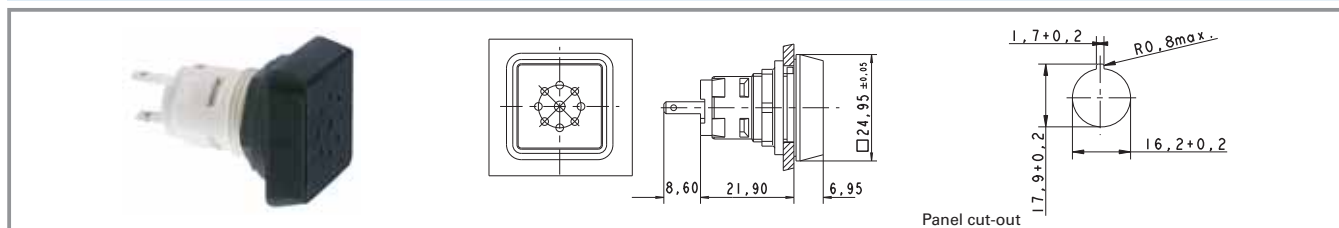
General information		Electrical characteristics	
Form of lens	flat lens	Operating voltage DC	24 V
Colour of lens	opaque black	Input current	see order block
Form of collar	see order block	Acoustic characteristics	
Sound	see order block	Sonic pressure, 1 m distance	see order block
Dimensions		min. Sound frequency	2400 - 3100 Hz
Collar dimensions	see order block	Other specifications	
Overall height	6.95 mm	Degree of protection from front side	IP65
Mounting depth	30.5 mm	Operation temperature min.	-25 °C
Mounting hole	16.2 mm	Ambient temp. operating max.	+70 °C
Key grid	25 x 25 mm	Storage temperature min.	-40 °C
Mechanical design		Storage temperature max.	+85 °C
Mounting	ring nut	Environmental resistance	acc. to IEC 60068-2
Mechanical characteristics			-14, -30, -33 and -78
Robustness min.	100 N		

Typical accessories RAFIX 16 - Buzzer

Description	Photo	Order no.	Additional accessories see page
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 95

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

RAFIX 16 - Buzzer, square collar



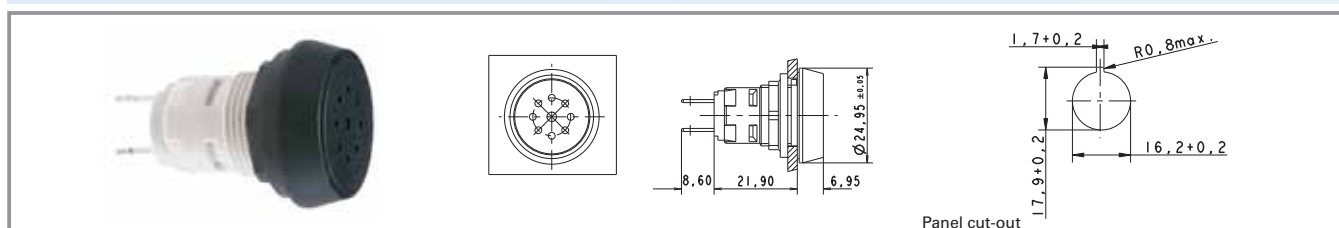
Operating voltage DC	Input current	Sound	Sonic pressure, 1 m distance min.	Order no.
24 V	25 mA	continuos beep	70 dB	1.30.078.001/0100

Technical data see page 2 - 42

12 V DC available on request.

2

RAFIX 16 - Buzzer, round collar



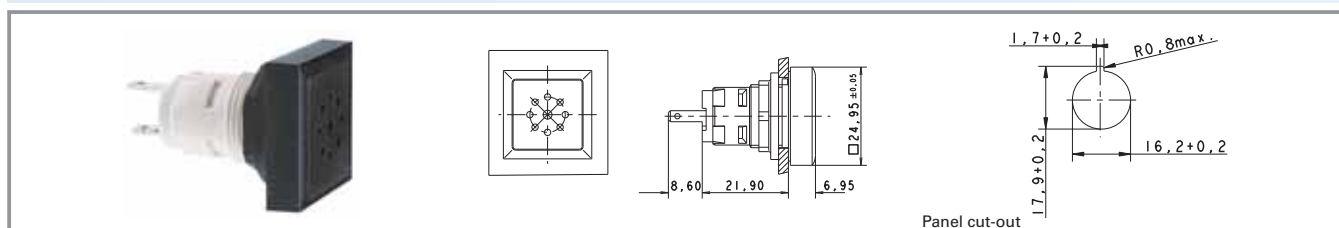
Operating voltage DC	Input current	Sound	Sonic pressure, 1 m distance min.	Order no.
24 V	25 mA	continuos beep	70 dB	1.30.078.021/0100

Technical data see page 2 - 42

12 V DC available on request.

RAFIX
16

RAFIX 16 - Buzzer, square collar, alignable without gaps



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

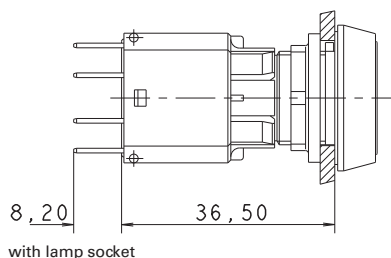
Technical data see page 2 - 42

12 V DC available on request.

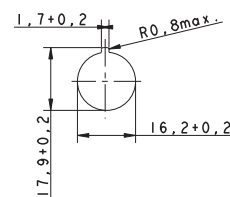
RAFIX 16 - Signal indicator



Pict.: transparent yellow



with lamp socket



Panel cut-out

2

RAFIX
16

Technical Data

General information

Form of lens	see order block
Colour 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
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 resistance	acc. to IEC 60068-2 -14, -30, -33 and -78

Approvals



IEC 61058



C22.2 No. 14-M91

Typical accessories RAFIX 16 - Signal indicator

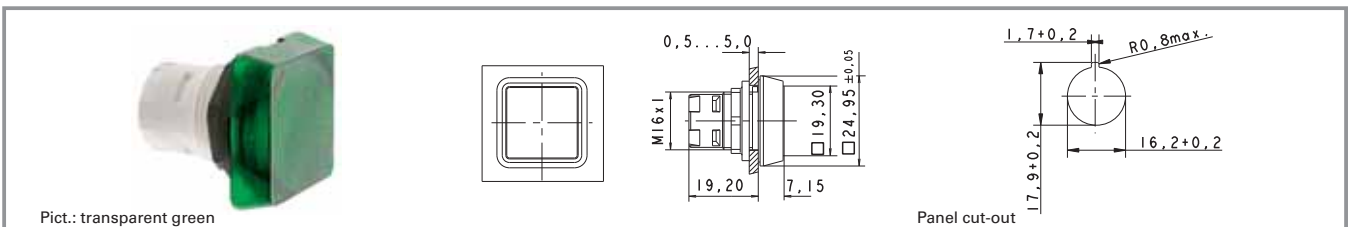
Description	Photo	Order no.	Additional accessories see page
RAFIX 16 - Lamp socket W 2 x 4.6 d		1.71.212.001/0000	2 - 91
RAFIX 16 - Lamp socket W 2 x 4.6 d		1.71.212.011/0000	2 - 91
LED W 2 x 4.6d superbright, white, 24 V		1.90.690.365/0000	5 - 14
Disassembly tool for LUMOTAST 25, RAFIX 16		5.05.800.042/0000	2 - 94
Label holder, flush, for square collar		5.07.620.004/0000	2 - 96

Typical accessories RAFIX 16 - Signal indicator

Description	Photo	Order no.	Additional accessories see page
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 95

For suitable LEDs and filament lamps, refer to the chapter „RAFIX 16 lamp sockets“; for additional accessories, refer to the chapter „RAFIX 16 special accessories“.

RAFIX 16 - Signal indicator, square lens

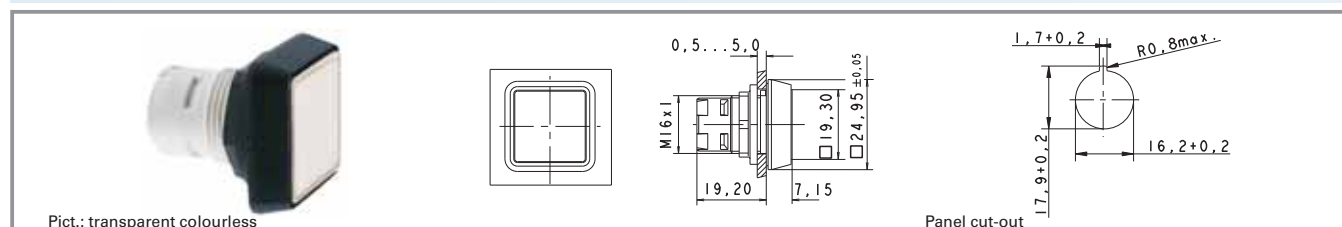


Form of lens	Colour of lens	Order no. complete	Order no. single parts	
			Housing	Lens
lens square	transparent colourless	1.65.124.001/1002	1.65.124.101/0000	5.49.263.006/1002
lens square	transparent red	1.65.124.001/1306	1.65.124.101/0000	5.49.263.006/1306
lens square	transparent yellow	1.65.124.001/1403	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

Technical data see page 2 - 44

Legending can only be made externally on a label holder.

RAFIX 16 - Signal indicator, square collar, flush lens



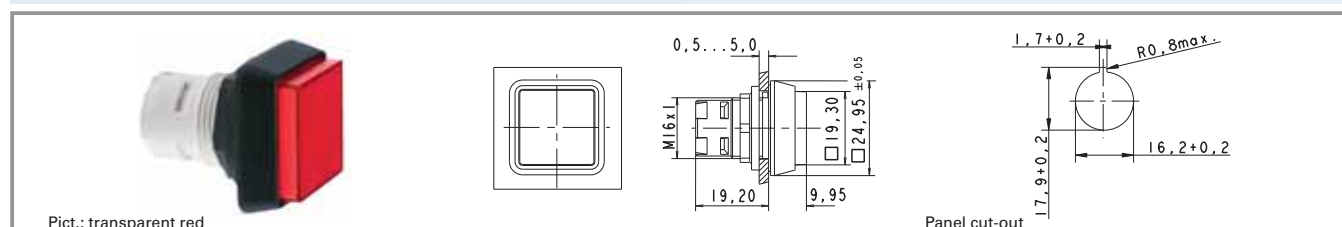
Form of lens	Colour of lens	Order no. complete	Order no. single parts	
			Housing	Lens
flat lens	transparent colourless	1.65.124.301/1002	1.65.124.401/0000	5.49.077.011/1002
flat lens	transparent red	1.65.124.301/1306	1.65.124.401/0000	5.49.077.011/1306
flat lens	transparent yellow	1.65.124.301/1403	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

Technical data see page 2 - 44

Accessoires:

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

RAFIX 16 - Signal indicator, square collar, protruding lens



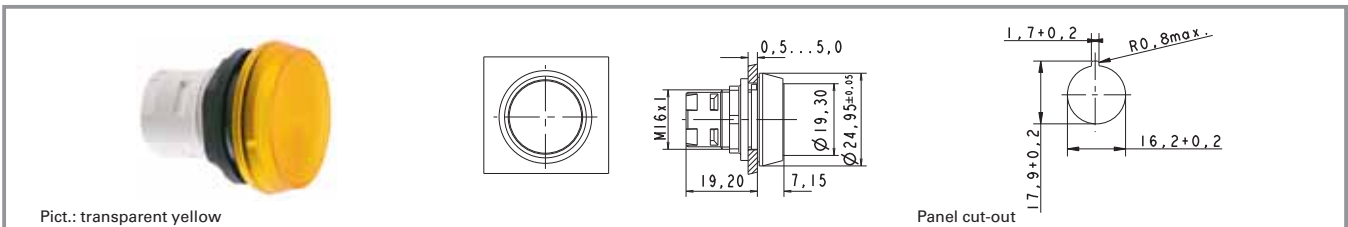
Form of lens	Colour of lens	Order no. complete	Order no. single parts	
			Housing	Lens
protruding lens	transparent colourless	1.65.124.351/1002	1.65.124.451/0000	5.49.077.012/1002
protruding lens	transparent red	1.65.124.351/1306	1.65.124.451/0000	5.49.077.012/1306
protruding lens	transparent yellow	1.65.124.351/1403	1.65.124.451/0000	5.49.077.012/1403
protruding lens	transparent green	1.65.124.351/1505	1.65.124.451/0000	5.49.077.012/1505
protruding lens	transparent blue	1.65.124.351/1607	1.65.124.451/0000	5.49.077.012/1607

Technical data see page 2 - 44

Accessoires:

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

RAFIX 16 - Signal indicator, round lens



Form of lens	Colour of lens	Order no. complete	Order no. single parts	
			Housing	Lens
lens round	transparent colourless	1.65.124.021/1002	1.65.124.101/0000	5.49.263.007/1002
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

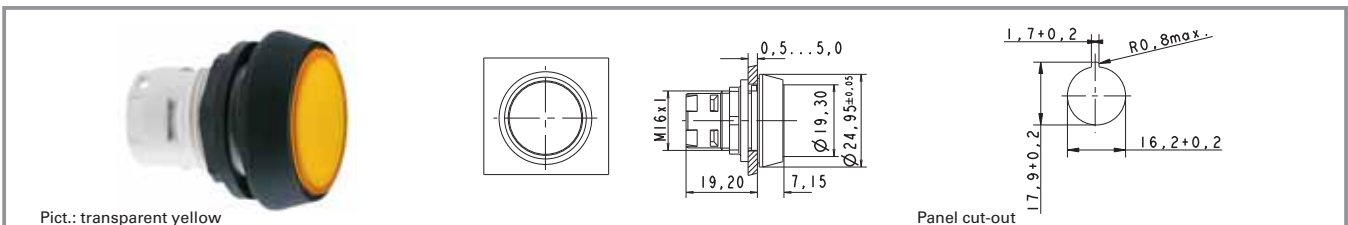
Technical data see page 2 - 44

Legending can only be made externally on a label holder.

2

RAFIX
16

RAFIX 16 - Signal indicator, round collar, flush lens



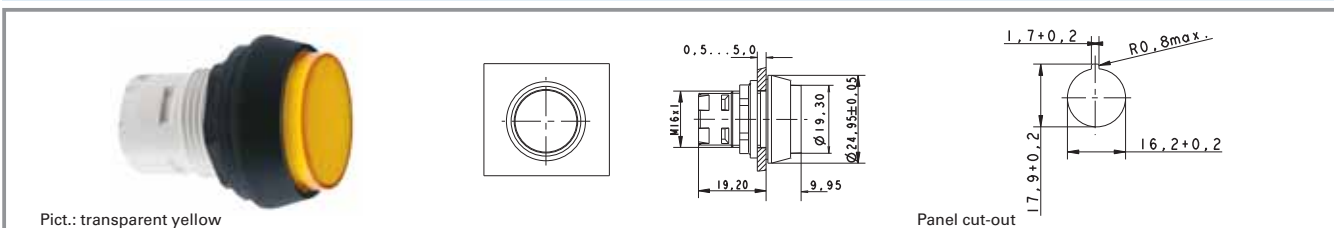
Form of lens	Colour of lens	Order no. complete	Order no. single parts	
			Housing	Lens
flat lens	transparent colourless	1.65.124.321/1002	1.65.124.421/0000	5.49.259.017/1002
flat lens	transparent red	1.65.124.321/1306	1.65.124.421/0000	5.49.259.017/1306
flat lens	transparent yellow	1.65.124.321/1403	1.65.124.421/0000	5.49.259.017/1403
flat lens	transparent green	1.65.124.321/1505	1.65.124.421/0000	5.49.259.017/1505
flat lens	transparent blue	1.65.124.321/1607	1.65.124.421/0000	5.49.259.017/1607

Technical data see page 2 - 44

Accessoires:

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

RAFIX 16 - Signal indicator, round collar, protruding lens



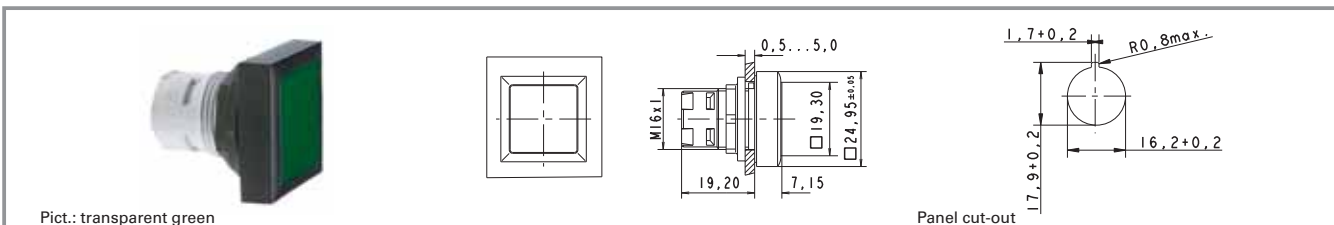
Form of lens	Colour of lens	Order no. complete	Order no. single parts	
			Housing	Lens
protruding lens	transparent colourless	1.65.124.371/1002	1.65.124.471/0000	5.49.259.018/1002
protruding lens	transparent red	1.65.124.371/1306	1.65.124.471/0000	5.49.259.018/1306
protruding lens	transparent yellow	1.65.124.371/1403	1.65.124.471/0000	5.49.259.018/1403
protruding lens	transparent green	1.65.124.371/1505	1.65.124.471/0000	5.49.259.018/1505
protruding lens	transparent blue	1.65.124.371/1607	1.65.124.471/0000	5.49.259.018/1607

Technical data see page 2 - 44

Accessoires:

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

RAFIX 16 - Signal indicator, square collar, alignable without gaps, flush lens



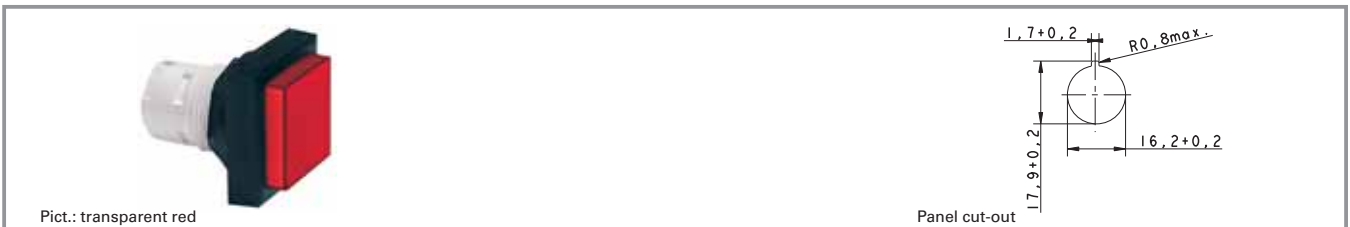
Form of lens	Colour of lens	Order no. complete	Order no. single parts	
			Housing	Lens
flat lens	transparent colourless	1.65.124.551/1002	1.65.124.651/0000	5.49.077.011/1002
flat lens	transparent red	1.65.124.551/1306	1.65.124.651/0000	5.49.077.011/1306
flat lens	transparent yellow	1.65.124.551/1403	1.65.124.651/0000	5.49.077.011/1403
flat lens	transparent green	1.65.124.551/1505	1.65.124.651/0000	5.49.077.011/1505
flat lens	transparent blue	1.65.124.551/1607	1.65.124.651/0000	5.49.077.011/1607

Technical data see page 2 - 44

Accessoires:

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

RAFIX 16 - Signal indicator, square collar, alignable without gaps, protruding lens



Form of lens	Colour of lens	Order no. complete	Order no. single parts	
			Housing	Lens
protruding lens	transparent colourless	1.65.124.501/1002	1.65.124.661/0000	5.49.077.012/1002
protruding lens	transparent red	1.65.124.501/1306	1.65.124.661/0000	5.49.077.012/1306
protruding lens	transparent yellow	1.65.124.501/1403	1.65.124.661/0000	5.49.077.012/1403
protruding lens	transparent green	1.65.124.501/1505	1.65.124.661/0000	5.49.077.012/1505
protruding lens	transparent blue	1.65.124.501/1607	1.65.124.661/0000	5.49.077.012/1607

Technical data see page 2 - 44

Accessoires:

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