



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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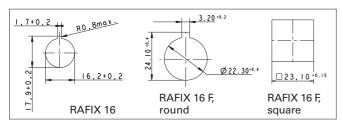
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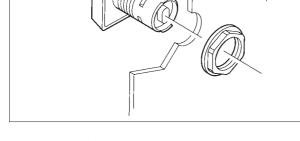
General information

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.

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-effectiv 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: \leq 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



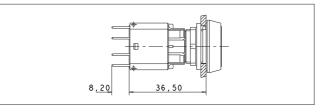




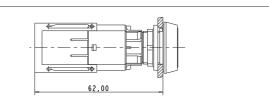
Dimensional Drawings RAFIX 16

Actuator with contact block resp. signal indicator with lamp socket

Contact block with quick-connect terminals and RAFIX 16 pushbutton

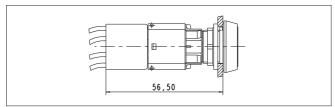


... with protection cage

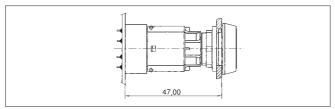


RAFIX 16

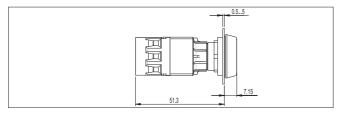
... with multipole connector



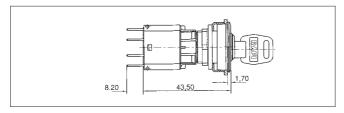
... with PCB plug-in socket

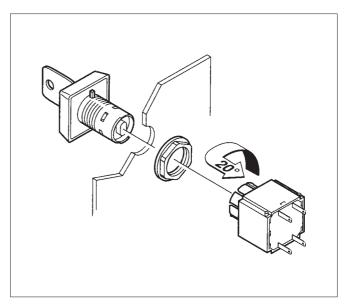


Contact block with screw terminals and RAFIX 16 pushbutton



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 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 plugin 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.

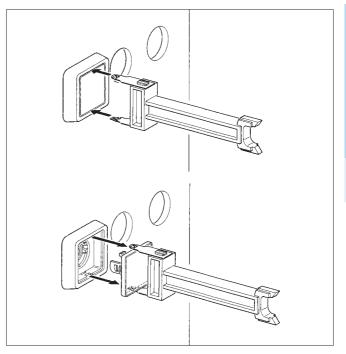
RAFI can also provide you custom legending. Price and delivery on request.

Lamp replacement from front

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

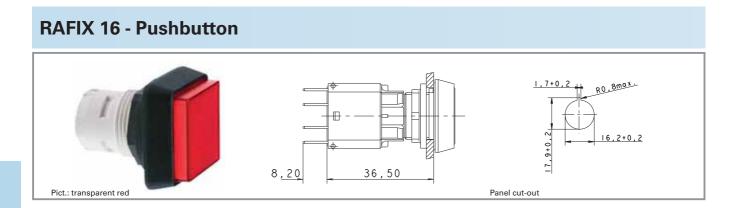
Alternatively, you can use a screwdriver in place of the disassembly tool. In this case, insert the screwdriver between actuator body and collar and carefully raise the actuator body.

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



Lamp replacement from front





2

Technical Data

General information Actuator Colour of lens Form of collar

RAFIX 16

Dimensions Collar dimensions Overall height Mounting depth Mounting hole Key grid

Mechanical design Mounting Contact function

Contact arrangement

Illumination

see order block see order block see order block

see order block see order block 44.7 mm 16.2 mm 25 x 25 mm

ring nut according to contact block according to contact block see order block

Mechanical characteristics Operating travel Robustness min.	3 mm 100 N
Other specifications Operating life (operations) Degree of protection from front side Operation temperature min. Ambient temp. operating max.	2,000,000 IP65 -25 °C +70 °C
without lamp /LED Ambient temp. operating max. with lamp /LED Storage temperature min. Storage temperature max.	+55 °C -40 °C +85 °C
Environmental restistance	acc. to IEC 60068-2 -14, -30, -33 and -78



Typical accessories RAFIX 16 - Pushbutton

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

2 - 8



Typical accessories RAFIX 16 - Pushbutton

Description	Photo	Order no.	Additional acces- sories see page
RAFIX 16 - Standard contact block, 1 NC + 1 NO, momentary, gold contacts, without lamp socket	曲	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 Mar	1.20.130.101/0000	2 - 87
LEDW 2 x 4.6d superbright, white, 24V		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	8	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

Pict: transparent colourless Panel cut-out				
Illumination	Colour of lens	Order no. complete		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

2

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Pict.: transparent red		0,55,0 10,5	Panel cut-out	<u>16,2+0,2</u>
Illumination	Colour of lens	Order no. complete	Order no. s	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

RAFIX 16 - Pushbutton, protruding lens, square collar

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.



1,7+0,2 RO,8max. 0,5...5,0 30 □24,95±0. M I 6 x 6 $\overline{\Box}$ 16,2+0,2 0+6 20 10,90 17, Pict.: transparent blue Panel cut-out Illumination **Colour of lens** Order no. complete Order no. single parts Housing Lens 1.30.070.101/1002 1.30.070.601/0000 5.49.077.011/1002 transparent colourless yes 1.30.070.101/1306 1.30.070.601/0000 5.49.077.011/1306 yes transparent red 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

RAFIX 16 - Pushbutton, protruding collar, square collar

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

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RAFIX 16 - Pushbutton, flush lens, round collar

Pict.: transparent yellow		0,55,0 0,55,0 0,6 0 0,6 12 0,9 35 0,7,15	Panel cut-out	16,2+0,2
Illumination	Colour of lens	Order no. complete	Order no. s	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:

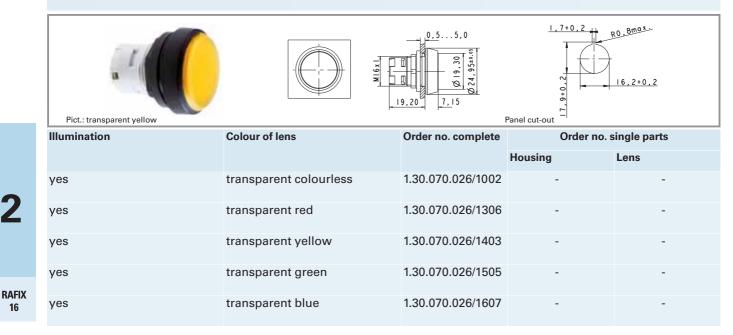
Legend insert, blank, use only for transparent lenses: 5.70.637.000/2000

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

2



RAFIX 16 - Pushbutton IP66 with protective cap



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

Pict.: opaque red		.5 <u>5.0</u>	Panel cut-out	<u>0.8m0x</u> . 16,2+0,2
Illumination	Colour of lens	Order no. complete	Order no. s	ingle 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

Pict.: transparent red	0, TX 9 1	55,0 	1,7+0,2 1,7	<u>16,2+0,2</u>
Illumination	Colour of lens	Order no. complete	Order no. s	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

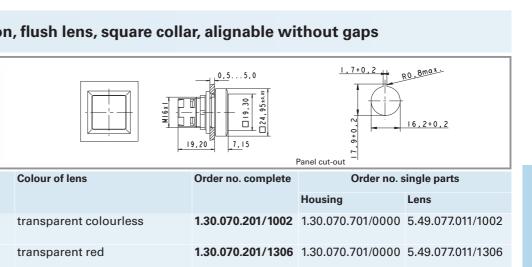
Technical data see page 2 - 8

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



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

Illumination	lumination Colour of lens Order no. comple		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		1.30.070.701/0000	
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

Pict.: transparent green

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

2

SOLUTIONS WITH PASSION





General Data

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

RAFIX 16

2

Technical Data

General information Actuator Marking of handle Form of collar

Dimensions Collar dimensions Overall height Mounting depth

Mounting hole

Key grid

Mechanical design

Mounting Contact function Contact arrangement

Illumination Rotating angle

handle see order block see order block

see order block 17.1 mm 44.7 mm 16.2 mm 25 x 25 mm

ring nut see order block according to contact block see order block see order block

Mechanical characteristics Torque max.	1.3 Nm
Other specifications	
Operating life (operations)	30,000
Degree of protection from	IP65
front side	
Operation temperature min.	-25 °C
Ambient temp. operating max.	+70 °C
without lamp /LED	
Ambient temp. operating max.	+55 °C
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

Approvals





IEC 61058

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14, -30, -33 and -78



Typical accessories RAFIX 16 - Selector switch

Description	Photo	Order no.	Additional acces- sories see page
RAFIX 16 - Universal contact block, 1 NC + 1 NO, momentary, silver contacts, with lamp socket	曹	1.20.123.001/0000	2 - 84
RAFIX 16 - Universal contact block, 1 NC + 1 NO, momentary, gold contacts, with lamp socket	曹	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	8	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



RAFIX 16 - Selector switch, square collar

Pict.: Handle marking	translucent		MIG-1	55,0	Panel cut-out	<u>R0.8max</u> .
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°		\checkmark	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°		2 0	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°		2 0	opaque white	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 LEDW 2 x 4,6d (see chapter 5 accessories).

RAFIX 16



2

RAFIX 16

RAFIX 16 - Selector switch, round collar

0.55.0 17+0.2 R0.8max 16.2+0.2						
Pict.: Handle marki	ng opaque white Contact function	Rotating angle			Panel cut-out 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°		2 0	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°		2 0	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 LEDW 2 x 4,6d (see chapter 5 accessories).



Pict.: Handle marking	opaque white		0,55,0 19,20 17,10	Panel cut-out	<u>R0.8max.</u> 16,2+0,2
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°	2 0	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	0	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°	2 0	opaque white	1.30.073.740/0200

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

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 fuctions and handle marking colours available on request.

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

2



RAFIX 16 - Keylock switch MICROMEC



RAFIX

16

Technical Data

General information Form of collar

Dimensions

Collar dimensions Overall height Mounting depth Mounting hole Key grid

Mechanical design

Mounting Contact function Contact arrangement

Illumination Lock Wafers Lock type Number of locking positions Main key Rotating angle Key removal position see order block

see order block 27.95 mm 44.7 mm 16.2 mm 25 x 25 mm

ring nut see order block according to contact block no Micromec 5 001 500 on request see order block 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	8 kV
panel	
Operating life (operations)	65,000
Degree of protection from	IP65
front side	
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

Approvals





IEC 61058

C22.2 No. 14-M91



Typical accessories RAFIX 16 - Keylock switch MICROMEC

Description	Photo	Order no.	Additional acces- sories 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	曲	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	14.0	1.20.130.101/0000	2 - 87
Label holder, flush, for square collar	8	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."



1,7+0,2 RO,8max. <u>0,5</u>...5,0 16,2+0,2 .0+6. 17, Panel cut-out **Contact function Rotating angle** Key removal position Order no. 1 x 40° 0 1.30.076.501/0000 momentary 0 momentary 2 x 40° 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 1 x 90°, form V 1.30.076.101/0000 latching 0 1 x 90°, form V 1.30.076.151/0000 latching 0+1 latching 2 x 90° 0 1.30.076.301/0000 latching 2 x 90° 1.30.076.401/0000 0+1+2

RAFIX 16 - Keylock switch MICROMEC, square collar

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



RAFIX 16 - Keylock switch MICROMEC, round collar

		0.55,0 0.55,0	7, 9+0, 2	<u>R0,8m0×-</u> . <u>16,2+0,2</u>
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 × 90°	0	2 0	1.30.076.321/0000
latching	2 × 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



		0.55,0 19,20 27,95 Panel cut-o	1,7+0,2 R0,8max 16,2+0,2 16,2+0,2
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	
latching	1 x 90°, form L	0+1	
latching	1 x 90°, form V	0	⁰ 1.30.076.141/0000
latching	1 x 90°, form V	0+1	⁰ 1.30.076.191/0000
latching	2 × 90°	0	1.30.076.341/0000
latching	2 × 90°	0+1+2	1.30.076.441/0000

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

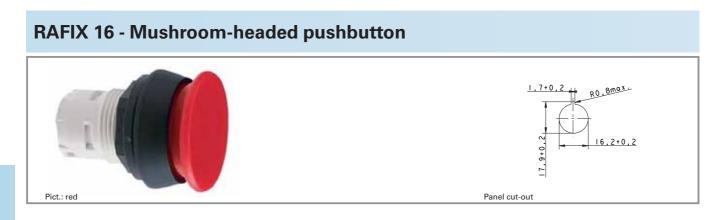
Technical data see page 2 - 24

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





2

Technical Data

General information Actuator Colour of mushroom Form of collar

RAFIX 16

Dimensions Collar dimensions Overall height Mounting depth Mounting hole Key grid

Mechanical design Mounting Contact function

Contact arrangement

Illumination

mushroom see order block see order block

see order block 12.1 mm 44.7 mm 16.2 mm 25 x 25 mm

ring nut according to contact block according to contact block no

Mechanical characteristics Operating travel Robustness max.	3 mm 100 Nm
Other specifications	
Operating life (operations)	2,000,000
Degree of protection from	IP65
front side	
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 restistance	acc. to IEC 60068-2
	-14, -30, -33 and -78

Approvals	
E xx	
IEC 61058	C22.2 No. 14-M91

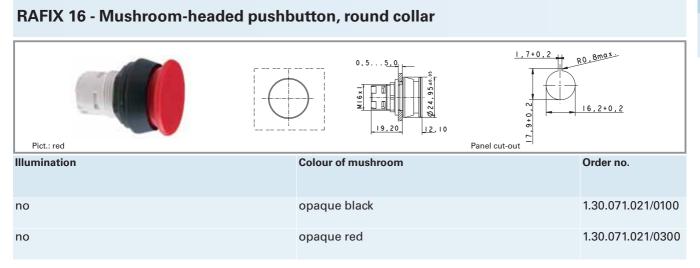
Typical accessories RAFIX 16 - Mushroom-headed pushbutton

Description	Photo	Order no.	Additional acces- sories see page
RAFIX 16 - Standard contact block, 1 NC + 1 NO, momentary, silver contacts, without lamp socket	曹	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



Description	Photo	Order no.	Additional acces- sories 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 Mar	1.20.130.101/0000	2 - 87
Label holder, flush, for square collar	8	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".



Technical data see page 2 - 30

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

RAFIX 16

SOLUTIONS WITH PASSION





Technical Data

General information Actuator Colour of mushroom Form of collar

RAFIX 16

Dimensions Collar dimensions Overall height Mounting depth Mounting hole

Mechanical design

Mounting Contact function Contact arrangement

Illumination Reset

Mechanical characteristics Robustness min. Robustness mushroom see order block see order block

see order block see order block 44.7 mm 16.2 mm

ring nut latching according to contact block see order block counterclockwise or clockwise rotation

100 N acc. to IEC 60947-5-5

Other specifications

Operating life (operations)	30,000
Degree of protection from	IP65
front side	
Operation temperature min.	-25 °C
Ambient temp. operating max.	+70 °C
without lamp /LED	
Ambient temp. operating max.	+55 °C
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

Corresponding to CE Ma-Dir. 89/392 Dupe-proof acc. to DIN EN ISO 13850

see order blo	ck
---------------	----

yes



Typical accessories RAFIX 16 - Emergency stop pushbutton

Description	Photo		Additional acces- sories see page
RAFIX 16 - Universal contact block, 1 NC, momentary, silver contacts, without lamp socket	曲	1.20.123.022/0000	2 - 84

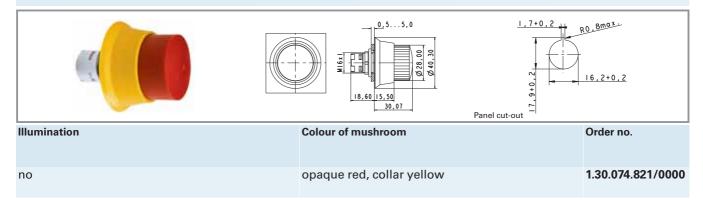


Typical accessories RAFIX 16 - Emergency stop pushbutton

Description	Photo	Order no.	Additional acces- sories see page
RAFIX 16 - Universal contact block, 1 NC, momentary, gold contacts, without lamp socket	曹	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"	\bigcirc	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"	0	5.76.204.114/0400	2 - 98, 5 - 28
Adhesive label yellow, round 16.3 / 60 mm, without legend	0	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



Technical data see page 2 - 32

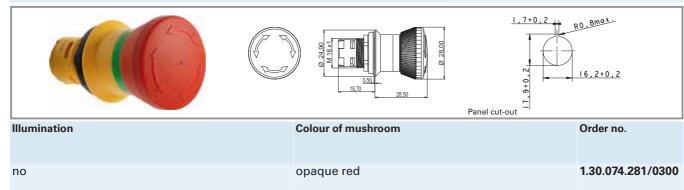
Only use universal contact blocks.

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.



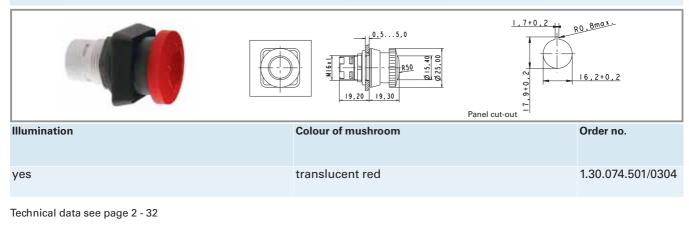
RAFIX 16 - Safety emergency stop pushbutton, round collar, conical, dupe-proof, non-blocking



Technical data see page 2 - 32

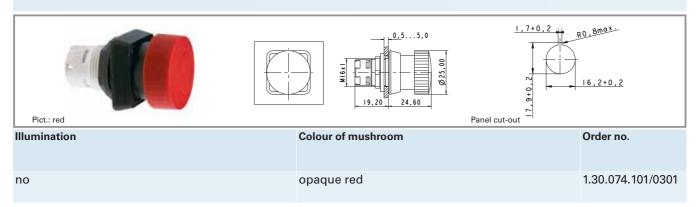
Only use universal contact blocks. The positively driven mechanical arrangement is dupe-proof to DIN EN ISO 13850.

RAFIX 16 - Emergency stop pushbutton, square collar, illuminable



Only use universal contact blocks.

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



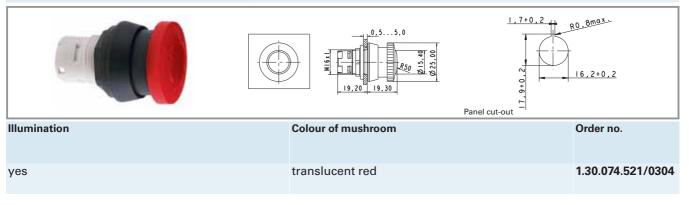
Technical data see page 2 - 32

Only use universal contact blocks.

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



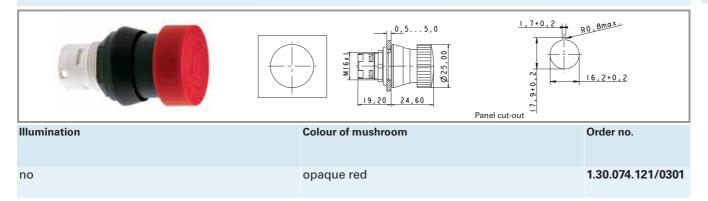
RAFIX 16 - Emergency stop pushbutton, round collar, illuminable



Technical data see page 2 - 32

Only use universal contact blocks.

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



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

see order block

see order block

18.4 mm

44.7 mm

16.2 mm

ring nut

latching

block

no

25 x 25 mm

according to contact





RAFIX

16

Technical Data

General information Form of collar

Dimensions Collar dimensions Overall height Mounting depth Mounting hole Key grid

Mechanical design Mounting Contact function Contact arrangement

Illumination

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 restistance	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 acces- sories see page
RAFIX 16 - Standard contact block, 1 NC + 1 NO, momentary, silver contacts, without lamp socket	曹	1.20.122.021/0000	2 - 82
RAFIX 16 - Standard contact block, 1 NC + 1 NO, momentary, gold contacts, without lamp socket	曹	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

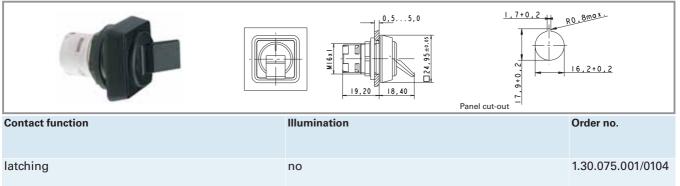


Typical accessories RAFIX 16 - Toggle switch

Description	Photo	Order no.	Additional acces- sories see page
RAFIX 16 - Contact block AS-I, standard	CHI.	1.20.130.101/0000	2 - 87
Label holder, flush, for square collar	8	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".

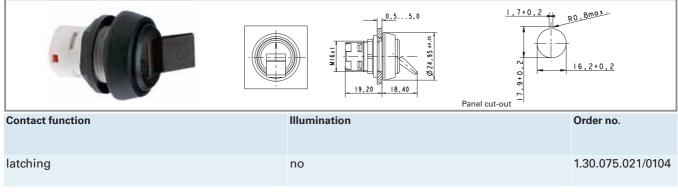
RAFIX 16 - Toggle switch, square collar



Technical data see page 2 - 36

Only use contact blocks with "momentary" contact function.

RAFIX 16 - Toggle switch, round collar



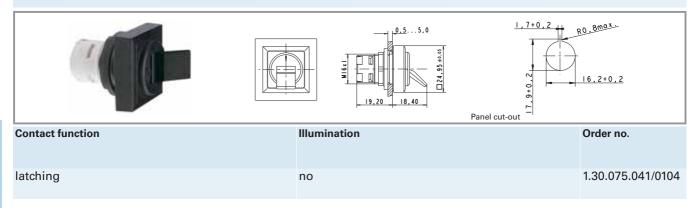
Technical data see page 2 - 36

Only use contact blocks with "momentary" contact function.

2



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



Technical data see page 2 - 36

Only use contact blocks with "momentary" contact function.





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 Form of lens Colour of handle

Form of collar Dimensions Collar dimensions Overall height Mounting depth Mounting hole

Mechanical design Mounting Thread nut

Key grid

handle black see order block

see order block 23.65 mm 19.2 mm 16.2 mm 25 x 25 mm

ring nut M10 x 0,75

Other specifications

Degree of protection from front side Operation temperature min. Ambient temp. operating max. Storage temperature min. Storage temperature max. Environmental restistance IP65 -25 °C +70 °C -40 °C +85 °C acc. to IEC 60068-2 -14, -30, -33 and -78

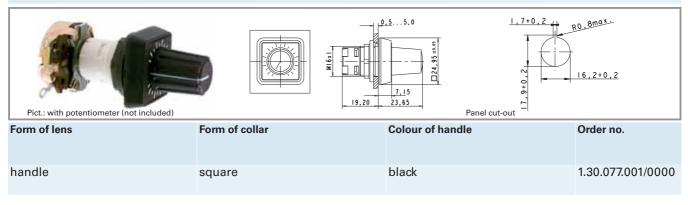
Typical accessories RAFIX 16 - Potentiometer drive

Description	Photo	Order no.	Additional acces- sories see page
Label holder, flush, for square collar	8	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".

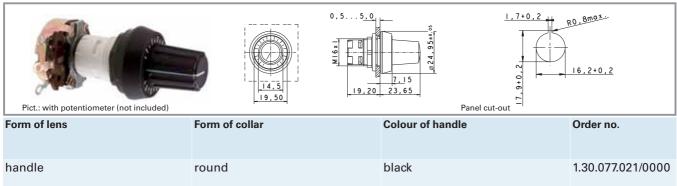


RAFIX 16 - Potentiometer drive, square collar



Technical data see page 2 - 40

RAFIX 16 - Potentiometer drive, round collar



Technical data see page 2 - 40

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

Pict.: condition as supplied		0,55,0 0,55,0	L, 7+0, 2 RO, 8mox 16, 2+0, 2 cut-out
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





2

RAFIX 16

Technical Data

General information Form of lens Colour of lens Form of collar	flat lens opaque black see order block	Electrical characteristics Operating voltage DC Input current	24 V see order block
Sound	see order block	Acoustic characteristics Sonic pressure, 1 m distance	see order block
Dimensions		min. Sound frequency	2400 - 3100 Hz
Collar dimensions	see order block		
Overall height	6.95 mm	Other specifications	
Mounting depth	30.5 mm	Degree of protection from	IP65
Mounting hole	16.2 mm	front side	
Key grid	25 x 25 mm	Operation temperature min.	-25 °C
		Ambient temp. operating max.	+70 °C
Mechanical design		Storage temperature min.	-40 °C
Mounting	ring nut	Storage temperature max.	+85 °C
C C	5	Environmental restistance	acc. to IEC 60068-2
Mechanical characteristics			-14, -30, -33 and -78
Robustness min.	100 N		

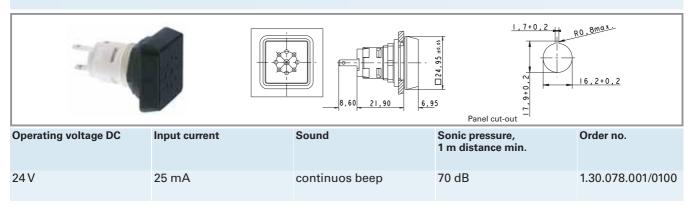
Typical accessories RAFIX 16 - Buzzer

Description	Photo		Additional acces- sories 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."



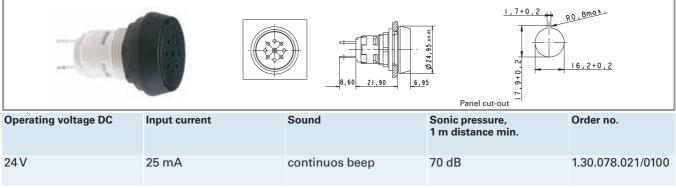
RAFIX 16 - Buzzer, square collar



Technical data see page 2 - 42

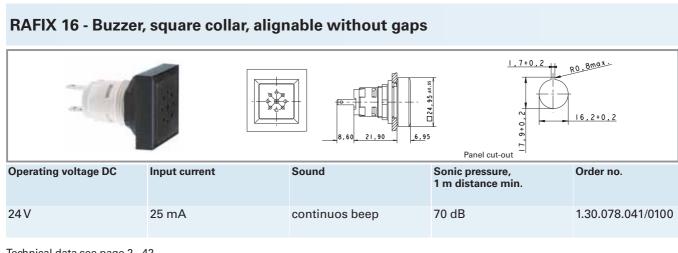
12 V DC available on request.

RAFIX 16 - Buzzer, round collar



Technical data see page 2 - 42

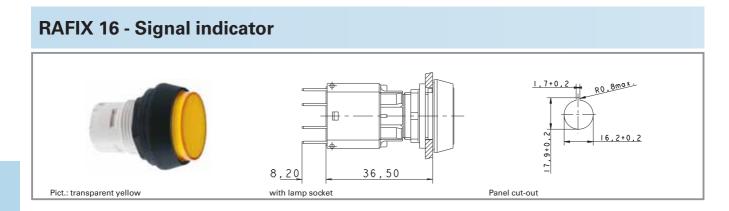
12 V DC available on request.



Technical data see page 2 - 42

12 V DC available on request.





2

Technical Data

General information Form of lens Colour of lens Form of collar

RAFIX 16

Dimensions Collar dimensions Overall height Mounting depth Mounting hole Key grid

Mechanical design Mounting see order block see order block see order block

see order block see order block 30.5 / 44.7 mm 16.2 mm 25 x 25 mm

ring nut

Other specifications

Degree of protection from	IP65
front side	
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



Typical accessories RAFIX 16 - Signal indicator

Description	Photo	Order no.	Additional acces- sories 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	8	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	8	5.07.620.004/0000	2 - 96

RAFIX 16 - Actuators and signal indicators

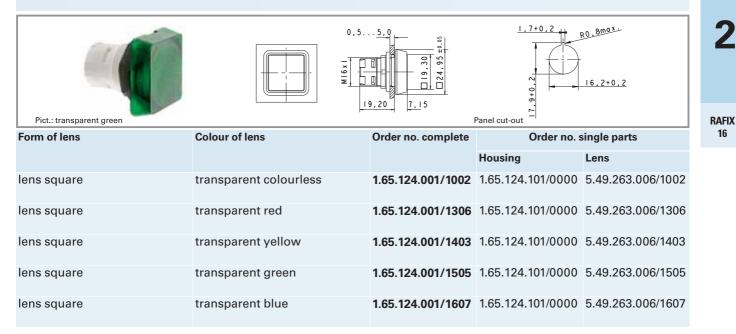


Typical accessories RAFIX 16 - Signal indicator



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



Technical data see page 2 - 44

Legending can only be made externally on a label holder.



RAFIX 16 - Signal indicator, square collar, flush lens

		0,5.		1,7+0,2	<u>R0,8max</u> 16,2+0,2
Pict.: transparent colourless		-	9,20 7,15	Panel cut-out	
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:

2

RAFIX 16

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

RAFIX 16 - Signal indicator, square collar, protruding lens

Pict.: transparent red		0,55,0 10,5	Panel cut-out	<u>16,2+0,2</u>
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:

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



RAFIX 16 - Signal indicator, round lens

		<u>0,5</u> 5,0 <u>19,20</u> <u>7,15</u>		<u>30,8m9x.</u> 16,2+0,2	
Pict.: transparent yellow			Panel cut-out		
Form of lens	Colour of lens	ens 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.

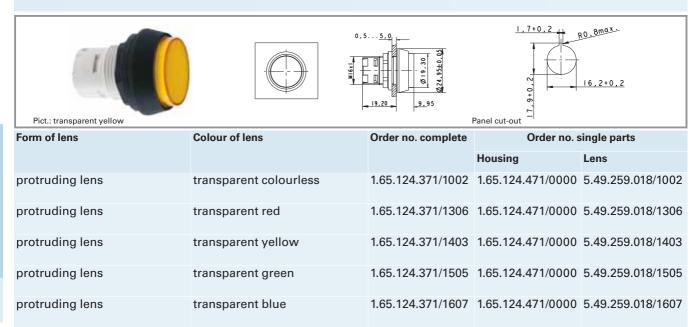
RAFIX 16 - Signal indicator, round collar, flush lens 1,7+0,2 RO,8max. , 5 ..5,0 00 16,2+0,2 6 .20 7 15 19 2 Pict.: transparent yellow Panel cut-out Form of lens **Colour of lens** Order no. complete Order no. single parts Housing Lens flat lens 1.65.124.321/1002 1.65.124.421/0000 5.49.259.017/1002 transparent colourless 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 1.65.124.321/1607 1.65.124.421/0000 5.49.259.017/1607 transparent blue

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

Technical data see page 2 - 44

Accessoires:

RAFIX

16

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

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

Pict.: transparent green	<u>1,7+0,2</u> <u>1,7+0,2</u> <u>1,7+0,2</u> <u>1,7+0,2</u> <u>1,7+0,2</u> <u>1,7+0,2</u> <u>1,7+0,2</u> <u>1,7+0,2</u> <u>1,6,2+0,2</u> <u>1,6,2+0,2</u> <u>1,6,2+0,2</u>			
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



Pict: transparent red Panel cut-out				
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

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

Technical data see page 2 - 44

Accessoires:

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

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Control components