



#### **General data**

#### **RAFIX 16 control component range**

- For a mounting hole diameter of 16.2 mm to IEC 60947
- 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 for a mounting hole diameter of 16.2 mm. It 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 ø 16.2 mm to DIN EN 50 007





- Locating lug (easily removable).
  The locating lug can be easily removed using a screwdriver.
- Degree of protection IP 65 on panel. This is achieved by a reliable, tried and tested special seal.
- Grid spacing 25 x 25 mm
- Low-profile design, 7 mm height from front panel
- Three collar shapes, in black
  - Square 25 x 25 mm
  - Round 25 mm
  - Square 25 x 25 mm, alignable in flush fitting rows, which avoids accumulation of dirt between the collars.

#### **Contact blocks**

- Standard (for actuators with one-way operation)
  with latching mechanism (latching switch)
- without latching mechanism (momentary switch)
  Universal (for actuators with two-way operation, e. g. selector switches)
  - without latching mechanism

#### **Contact material**

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

#### Illumination

- Wedge base lamp W 2 x 4.6 d

#### Assembly

- Single-handed cost-effectiv assembly method
- Panel thickness 0.5 ... 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**

- Constant environment: acc. to IEC 600 68-2-3 and 2-30
- Variable environment: acc. to IEC 600 68-2-14 and 2-33

#### **Temperature range**

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



# **CE-Conformity RAFIX® 16**

Combination Order no. Li		Limit	EU-Directive		
contact block			NSR 73/23	Ma. Dir. 89/392	
All actuators All contact blocks with silver contacts	1.3007–.– – – 1.2012–.– – –	6(4) A/250 V AC	•	-	
Emergency stop Contact blocks with silver contacts	1.30074 1.20123	6(4) A/250 V AC	•	•	
Emergency stop, Universal contact blocks with gold contacts	1.30074 1.20123	250 mA/42 V AC/DC	-	•	
Signal indicator lamp socket	1.62124 1.71212	1,2 W/60 V AC/DC	•	-	

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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.
- Slide the contact block onto the actuator from the rear with an audible click.
- Install protection against accidental contact, if applicable.
- Connect quick-connect terminals.
- Alternatively, connect crimped female quick-connect terminals to multipole connector and plug it onto the contact block.
- Alternatively, conntact the plug-in socket soldered onto

#### Disassembly

- Turn the contact block by approx. 20° to the left or right - the latches open.
- Pull the contact block off towards the rear

(commercially available flat nose pliers recommended). To dismount a PCB, pull the PCB with the soldered plug-in sockets off the mounted contact blocks.



# Legending

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". Non-illuminated pushbuttons and mushroom-headed pushbuttons can be printed or laser engraved.

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



#### **RAFIX 16 pushbutton**



2

## **Technical data**

**General information** Form of lens Colour of lens Form of collar

#### RAFIX 16

Dimensions Length of collar Diameter of collar Key grid Width of collar Overall height Mounting depth Mounting hole

#### Mechanical design

Mounting Contact function Contact arrangement Illuminability see order block see order block see order block

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

ring nut according to contact block according to contact block see order block **Mechanical characteristics** Operating travel 3 mm 100 N Robustness min. Other specifications Operating life 2000000 Degree of protection from front side IP65 Ambient temp. operating -25 °C min. Ambient temp. operating +70 °C without lamp max. -40 °C Storage temperature min. Storage temperature max. +85 °C Resistance to constant environment according to IEC 600 68-2-3 and 2-30 Resistance at variable environment

according to IEC 600 68-2-14 and 2-33

## **Accessories RAFIX 16 pushbutton**

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RAFIX 16 standard contact block, 1 NC + 1 NO, momentary, gold contacts, with lamp socket	劇	1.20.122.011/0000	2 - 60
RAFIX 16 standard contact block, 1 NC + 1 NO, momentary, silver contacts, without lamp socket	曲	1.20.122.021/0000	2 - 64
RAFIX 16 standard contact block, 1 NC + 1 NO, momentary, gold contacts, without lamp socket	曲	1.20.122.031/0000	2 - 60
LED W 2 x 4.6d superbright, white, 24 V		1.90.690.365/0000	5 - 16
Disassembly tool for LUMOTAST 25, RAFIX 16	]	5.05.800.042/0000	2 - 74 5 - 26
Label holder, flush, for square collar	<b>A</b>	5.07.620.004/0000	2 - 76



RAFIX 16

# **Accessories RAFIX 16 pushbutton**



# RAFIX 16 pushbutton, flush lens, square collar

Pict.: white		00 00 00 00 00 00 00 00 00 00	1,7+0,2	<u>30,8m9x.</u> 16,2+0,2
Illuminability	Colour of lens	Order no. complete	Order no. s Housing	single parts Lens
			Ū	
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	1.30.070.751/0000	5.05.510.640/0100
no	opaque white	1.30.070.251/0200	1.30.070.751/0000	5.05.510.640/0200
no	opaque red	1.30.070.251/0300	1.30.070.751/0000	5.05.510.640/0300
no	opaque yellow	1.30.070.251/0400	1.30.070.751/0000	5.05.510.640/0400
no	opaque green	1.30.070.251/0500	1.30.070.751/0000	5.05.510.640/0500
no	opaque blue	1.30.070.251/0600	1.30.070.751/0000	5.05.510.640/0600

Technical data see page 2 - 8

#### Accessories:

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**

Pict.: yellow		5,0 5,0	1,7+0,2 1,7+0,2 0 0 0 0 0 0 0 0 0 0 0 0 0	<u>16,2+0,2</u>
Illuminability	Colour of lens	Order no. complete	Order no. s	ingle 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		
no	opaque white	1.30.070.301/0200		
no	opaque red	1.30.070.301/0300		
no	opaque yellow	1.30.070.301/0400		
no	opaque green	1.30.070.301/0500		
no	opaque blue	1.30.070.301/0600		

Technical data see page 2 - 8

#### Accessories:

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

		0,55,0		<u>16,2+0,2</u>
Pict.: yellow			panel cut-out	
Illuminability	Colour of lens	Order no. complete		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
no	opaque black	1.30.070.351/0100	1.30.070.851/0000	5.05.510.640/0100
no	opaque white	1.30.070.351/0200	1.30.070.851/0000	5.05.510.640/0200
no	opaque red	1.30.070.351/0300	1.30.070.851/0000	5.05.510.640/0300
no	opaque yellow	1.30.070.351/0400	1.30.070.851/0000	5.05.510.640/0400
no	opaque green	1.30.070.351/0500	1.30.070.851/0000	5.05.510.640/0500
no	opaque blue	1.30.070.351/0600	1.30.070.851/0000	5.05.510.640/0600

Technical data see page 2 - 8

#### Accessories:

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, particularly in the printing industry.

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



# **RAFIX 16 pushbutton, flush lens, round collar**

Pict.: blue		0,55,0 0,55,0 0,6,6,72 0,7,15 0,7,15	1,7+0,2 1,7	16,2+0,2
Illuminability	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	1.30.070.771/0000	5.05.510.641/0100
no	opaque white	1.30.070.271/0200	1.30.070.771/0000	5.05.510.641/0200
no	opaque red	1.30.070.271/0300	1.30.070.771/0000	5.05.510.641/0300
no	opaque yellow	1.30.070.271/0400	1.30.070.771/0000	5.05.510.641/0400
no	opaque green	1.30.070.271/0500	1.30.070.771/0000	5.05.510.641/0500
no	opaque blue	1.30.070.271/0600	1.30.070.771/0000	5.05.510.641/0600

Technical data see page 2 - 8

#### Accessories:

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**

Pict.: yellow		0.55,0 0.55,0	<u>1, 7+0, 1</u>	2 R0, 8mo X 1 1 16, 2+0, 2
Illuminability	Colour of lens	Order no. complete		er 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		
no	opaque black	1.30.070.276/0100		
no	opaque white	1.30.070.276/0200		
no	opaque red	1.30.070.276/0300		
no	opaque yellow	1.30.070.276/0400		
no	opaque green	1.30.070.276/0500		
no	opaque blue	1.30.070.276/0600		

Technical data see page 2 - 8

#### Accessories:

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: red		-19,20 - 9,95	Danel cut-out	16,2+0,2
Illuminability	Colour of lens	Order no. complete		single parts Lens
			Housing	
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 white	1.30.070.321/0200		
no	opaque red	1.30.070.321/0300		
no	opaque yellow	1.30.070.321/0400		
no	opaque green	1.30.070.321/0500		
no	opaque blue	1.30.070.321/0600		

Technical data see page 2 - 8

#### Accessories:

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.: red		55.0 55.0	Danel cut-out	16,2+0,2
Illuminability	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
no	opaque black	1.30.070.371/0100	1.30.070.871/0000	5.05.510.641/0100
no	opaque white	1.30.070.371/0200	1.30.070.871/0000	5.05.510.641/0200
no	opaque red	1.30.070.371/0300	1.30.070.871/0000	5.05.510.641/0300
no	opaque yellow	1.30.070.371/0400	1.30.070.871/0000	5.05.510.641/0400
no	opaque green	1.30.070.371/0500	1.30.070.871/0000	5.05.510.641/0500
no	opaque blue	1.30.070.371/0600	1.30.070.871/0000	5.05.510.641/0600

Technical data see page 2 - 8

#### Accessories:

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, particularly in the printing industry.

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



# RAFIX 16 pushbutton, flush lens, square collar, alignable without gaps

Pict.: black		9,20 0,55,0 0,5	1,7+0,2 1,7	16,2+0,2
Illuminability	Colour of lens	Order no. complete		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	1.30.070.951/0000	5.05.510.640/0100
no	opaque white	1.30.070.451/0200	1.30.070.951/0000	5.05.510.640/0200
no	opaque red	1.30.070.451/0300	1.30.070.951/0000	5.05.510.640/0300
no	opaque yellow	1.30.070.451/0400	1.30.070.951/0000	5.05.510.640/0400
no	opaque green	1.30.070.451/0500	1.30.070.951/0000	5.05.510.640/0500
no	opaque blue	1.30.070.451/0600	1.30.070.951/0000	5.05.510.640/0600

Technical data see page 2 - 8

#### Accessories:

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**



## **Technical data**

**General information** Form of lens Marking of handle Form of collar

#### RAFIX 16

Dimensions Length of collar Diameter of collar Key grid Width of collar Overall height Mounting depth Mounting hole

#### Mechanical design

Mounting Contact function Contact arrangement Illuminability Rotating angle handle see order block see order block

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

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

<b>Mechanical characteristics</b> Torque max.	1.3 Nm
Other specifications	
Operating life	30000
Degree of protection	10.05
from front side	IP65
Ambient temp. operating min.	-25 °C
Ambient temp. operating without lamp max.	+70 °C
Ambient temp. operating	
with lamp max.	+55 °C
Storage temperature min.	-40 °C +85 °C
Storage temperature max. Resistance to constant	+85 C
environment	according to
	IEC 600 68-2-3 and 2-30
Resistance at variable	
environment	according to IEC 600 68-2-14 and 2-33

### **Accessories RAFIX 16 selector switch**

Description	Photo	Order no.	Page
RAFIX 16 universal contact block, 1 NC + 1 NO, momentary, silver contacts, with lamp socket		1.20.123.001/0000	2 - 65
RAFIX 16 universal contact block, 1 NC + 1 NO, momentary, gold contacts, with lamp socket		1.20.123.011/0000	2 - 61
Label holder, flush, for square collar	8	5.07.620.004/0000	2 - 76
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 75

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 Panel cut-out Panel cut-out					
Illuminability	Contact function	Rotating angle		Marking of handle	Order no. complete
yes	momentary	1 x 40°	Ď	translucent white	1.30.073.551/2000
yes	momentary	2 x 40°	$\checkmark$	translucent white	1.30.073.651/2000
yes	latching	L, 1 x 90°	Ď,	translucent white	1.30.073.501/2000
yes	latching	V, 1 x 90°		translucent white	1.30.073.601/2000
yes	latching	2 x 60°	$\bigcirc$	translucent white	1.30.073.701/2000
yes	latching 1 x 90° and momentary 1 x 40°	latching 90°/momentary 40°	2	translucent white	1.30.073.751/2000
no	momentary	1 x 40°	$\triangleright$	opaque white	1.30.073.550/0200
no	momentary	2 x 40°	$\checkmark$	opaque white	1.30.073.650/0200
no	latching	L, 1 x 90°		opaque white	1.30.073.500/0200
no	latching	V, 1 x 90°		opaque white	1.30.073.600/0200
no	latching	2 x 60°		opaque white	1.30.073.700/0200
no	latching 1 x 90° and momentary 1 x 40°	latching 90°/momentary 40°		opaque white	1.30.073.750/0200

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 handle marking colours available on request.



RAFIX 16

## **RAFIX 16 selector switch, round collar**

Pict: handle opaque Pict contract $Panel cut-out$					-
Illuminability	Contact function	Rotating angle		Marking of handle	Order no. complete
yes	momentary	1 x 40°	$\triangleright$	translucent white	1.30.073.571/2000
yes	momentary	2 x 40°	$\checkmark$	translucent white	1.30.073.671/2000
yes	latching	L, 1 x 90°		translucent white	1.30.073.521/2000
yes	latching	V, 1 x 90°		translucent white	1.30.073.621/2000
yes	latching	2 × 60°	$\Diamond$	translucent white	1.30.073.721/2000
yes	latching 1 x 90° and momentary 1 x 40°	latching 90°/momentary 40°		translucent white	1.30.073.771/2000
no	momentary	1 x 40°	$\triangleright$	opaque white	1.30.073.570/0200
no	momentary	2 x 40°		opaque white	1.30.073.670/0200
no	latching	L, 1 x 90°	Ď,	opaque white	1.30.073.520/0200
no	latching	V, 1 x 90°		opaque white	1.30.073.620/0200
no	latching	2 x 60°		opaque white	1.30.073.720/0200
no	latching 1 x 90° and momentary 1 x 40°	latching 90°/momentary 40°		opaque white	1.30.073.770/0200

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 handle marking colours available on request.



RAFIX 16

RAFIX 16 s	RAFIX 16 selector switch, square collar, alignable without gaps					
Pict: handle opaque white $Panel cut-out$					-	
llluminability	Contact function	Rotating angle		Marking of handle	Order no. complete	
yes	momentary	1 x 40°	$\triangleright$	translucent white	1.30.073.591/2000	
yes	momentary	2 x 40°	$\diamond$	translucent white	1.30.073.691/2000	
yes	latching	L, 1 x 90°	ľ,	translucent white	1.30.073.541/2000	
yes	latching	V, 1 x 90°		translucent white	1.30.073.641/2000	
yes	latching	2 x 60°		translucent white	1.30.073.741/2000	
yes	latching 1 x 90° and momentary 1 x 40°	latching 90°/momentary 40°	2	translucent white	1.30.073.791/2000	
no	momentary	1 x 40°	$\triangleright$	opaque white	1.30.073.590/0200	
no	momentary	2 x 40°	$\checkmark$	opaque white	1.30.073.690/0200	
no	latching	L, 1 x 90°	ľ,	opaque white	1.30.073.540/0200	
no	latching	V, 1 x 90°		opaque white	1.30.073.640/0200	
no	latching	2 x 60°		opaque white	1.30.073.740/0200	
no	latching 1 x 90° and momentary 1 x 40°	latching 90°/momentary 40°		opaque white	1.30.073.790/0200	

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 handle marking colours available on request.



## **RAFIX 16 keylock switch MICROMEC**



# **Technical data**

**General information** Form of collar

Dimensions

RAFIX

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Length of collar Diameter of collar Key grid Width of collar Overall height Mounting depth Mounting hole

#### Mechanical design

Mounting Contact function Contact arrangement Illuminability Lock Wafers Lock type Number of locking positions Main key Symmetric key Rotating angle Key removal position Group key General key see order block

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

ring nut see order block according to contact block no Micromec 5 001 500 yes no see order block see order block yes yes

<b>Mechanical characteristics</b> Torque max.	1.3 Nm
Electrical characteristics Protection class	П
	11
Other specifications	
ESD-strength lock /	
contact	15 kV
ESD strength key/ front	
panel	8 kV
Operating life	65000
Degree of protection	
from front side	IP65
Ambient temp. operating min	25 %
	-25 °C
Ambient temp. operating without lamp max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Resistance to constant	
environment	according to
	IEC 600 68-2-3 and 2-30
Resistance at variable	
environment	according to
	IEC 600 68-2-14 and 2-33

## **Accessories RAFIX 16 keylock switch MICROMEC**

Description	Photo	Order no.	Page
RAFIX 16 universal contact block, 1 NC + 1 NO, momentary, silver contacts, without lamp socket	劃	1.20.123.021/0000	2 - 65
RAFIX 16 universal contact block, 1 NC + 1 NO, momentary, gold contacts, without lamp socket	曲	1.20.123.031/0000	2 - 61
Label holder, flush, for square collar	<b>A</b>	5.07.620.004/0000	2 - 76
Fixing spanner for hexagon nut	2	5.58.002.034/0000	2 - 75



# Accessories RAFIX 16 keylock switch MICROMEC

Description	Photo	Order no.	Page
Spare key, black		5.58.007.001/0000	

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 MICROMEC, square collar

		9.55.0 27.95 Panel cut-or	7, 9+0, 2	16,2+0,2
Contact function	Rotating angle	Key removal position		Order no. complete
momentary	1 x 40°	0	$\triangleright$	1.30.076.501/0000
momentary	2 x 40°	0	$\checkmark$	1.30.076.701/0000
latching	L, 1 x 90°	0	Ď,	1.30.076.001/0000
latching	L, 1 x 90°	0+1		1.30.076.051/0000
latching	V, 1 x 90°	0		1.30.076.101/0000
latching	V, 1 x 90°	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
latching 1 x 90° and momentary 1 x 40°	latching 1 x 90°/ momentary 1 x 40°	2	2	1.30.076.901/0000

Technical data see page 2 - 22

Only use contact blocks with "momentary" contact function. For versions with clockwise and counterclockwise rotation, use universal contact block only. Included: 2 keys.



## **RAFIX 16 keylock switch MICROMEC, round collar**



Technical data see page 2 - 22

Only use contact blocks with "momentary" contact function. For versions with clockwise and counterclockwise rotation, use universal contact block only. Included: 2 keys.

RAFIX

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# **RAFIX 16 keylock switch MICROMEC, square collar, alignable without gaps**

		9.55,0 27,95 Panel cut-or	7.9+0.2	<u>R0,8max</u> .16,2+0,2
Contact function	Rotating angle	Key removal position		Order no. complete
momentary	1 x 40°	0		1.30.076.541/0000
momentary	2 x 40°	0		1.30.076.741/0000
latching	L, 1 x 90°	0		1.30.076.041/0000
latching	L, 1 x 90°	0+1	Ď,	1.30.076.091/0000
latching	V, 1 x 90°	0		1.30.076.141/0000
latching	V, 1 x 90°	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
latching 1 x 90° and momentary 1 x 40°	latching 1 x 90°/ momentary 1 x 40°	2	2	1.30.076.941/0000

Technical data see page 2 - 22

Only use contact blocks with "momentary" contact function. For versions with clockwise and counterclockwise rotation, use universal contact block only. Included: 2 keys.



### **RAFIX 16 keylock switch, RONIS**



RAFIX

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## Technical data

**General information** Form of collar

### Dimensions

Length of collar Diameter of collar Key grid Width of collar Overall height Mounting depth Mounting hole

#### Mechanical design

Mounting Contact function Contact arrangement Illuminability Lock Wafers Lock type Number of locking positions Main key Symmetric key Rotating angle Key removal position Group key General key see order block

see order block see order block 25 x 25 mm see order block 20.9 mm 44.7 mm 16.2 mm

ring nut see order block according to contact block no Ronis 4 455 200 no no see order block see order block no no

<b>Mechanical characteristics</b> Robustness min.	100 N
Electrical characteristics Protection class	П
Other specifications ESD-strength lock /	
contact ESD strength key/ front	15 kV
panel Operating life	4 kV 65000
Degree of protection from front side	IP65
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min. Storage temperature max.	-40 °C +85 °C
Resistance to constant environment	according to
Resistance at variable	IEC 600 68-2-3 and 2-30
environment	according to IEC 600 68-2-14 and 2-33

## **Accessories Keylock switch, RONIS**

Description	Photo	Order no.	Page
RAFIX 16 universal contact block, 1 NC + 1 NO, momentary, silver contacts, without lamp socket		1.20.123.021/0000	2 - 65
RAFIX 16 universal contact block, 1 NC + 1 NO, momentary, gold contacts, without lamp socket		1.20.123.031/0000	2 - 61
Label holder, flush, for square collar	8	5.07.620.004/0000	2 - 76
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 75

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, RONIS, square collar**

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$				
Contact function	Rotating angle	Key removal position		Order no. complete
momentary	1 x 40°	0	$\triangleright$	1.30.176.501/0000
momentary	2 x 40°	0	$\checkmark$	1.30.176.701/0000
latching	L, 1 x 90°	0	Ď,	1.30.176.001/0000
latching	L, 1 x 90°	0+1	ľ,	1.30.176.051/0000
latching	V, 1 x 90°	0		1.30.176.101/0000
latching	V, 1 x 90°	0+1		1.30.176.151/0000
latching	2 x 90°	0		1.30.176.301/0000
latching	2 × 90°	0+1+2		1.30.176.401/0000

Technical data see page 2 - 26

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

Included: 2 keys.

Other lock variants available on request.



# RAFIX 16 keylock switch, RONIS, round collar

		Panel cut-or	7, 9+0, 2	<u>R0,8m9x.</u> 16,2+0,2
Contact function	Rotating angle	Key removal position		Order no. complete
momentary	1 x 40°	0	$\triangleright$	1.30.176.521/0000
momentary	2 x 40°	0	$\checkmark$	1.30.176.721/0000
latching	L, 1 x 90°	0		1.30.176.021/0000
latching	L, 1 x 90°	0+1		1.30.176.071/0000
latching	V, 1 x 90°	0		1.30.176.121/0000
latching	V, 1 x 90°	0+1		1.30.176.171/0000
latching	2 x 90°	0		1.30.176.321/0000
latching	2 x 90°	0+1+2	2	1.30.176.421/0000

Technical data see page 2 - 26

Only use contact blocks with "momentary" contact function. For versions with clockwise and counterclockwise rotation, use universal contact block only. Included: 2 keys.

2



# RAFIX 16 keylock switch, RONIS, square collar, alignable without gaps

		19, 20 40, 10 Panel cut-o	1,7+0,2 ,7+0,2 ,0 ,0 ,0 ,0 ,0 ,0 ,0 ,0 ,0 ,0	<u>16,2+0,2</u>
Contact function	Rotating angle	Key removal position		Order no. complete
momentary	1 x 40°	0		1.30.176.541/0000
momentary	2 x 40°	0	$\checkmark$	1.30.176.741/0000
latching	L, 1 x 90°	0	Ď,	1.30.176.041/0000
latching	L, 1 x 90°	0+1		1.30.176.091/0000
latching	V, 1 x 90°	0		1.30.176.141/0000
latching	V, 1 x 90°	0+1		1.30.176.191/0000
latching	2 x 90°	0		1.30.176.341/0000
latching	2 x 90°	0+1+2		1.30.176.441/0000

Technical data see page 2 - 26

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

Included: 2 keys.



## **RAFIX 16 mushroom-headed pushbutton**



# Technical data

**General information** Form of lens Colour of lens Form of collar

#### RAFIX 16

Dimensions Length of collar Diameter of collar Key grid Width of collar Overall height Mounting depth Mounting hole

#### Mechanical design

Mounting Contact function Contact arrangement Illuminability protruding lens see order block see order block

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

ring nut according to contact block according to contact block no **Mechanical characteristics** Operating travel 3 mm Robustness min. 100 Nm Other specifications 2000000 **Operating life** Degree of protection IP65 from front side Ambient temp. operating -25 °C min. Ambient temp. operating +70 °C without lamp max. -40 °C Storage temperature min. Storage temperature max. +85 °C Resistance to constant environment according to IEC 600 68-2-3 and 2-30 Resistance at variable environment according to

IEC 600 68-2-14 and 2-33

## Accessories RAFIX 16 mushroom-headed pushbutton

Description	Photo	Order no.	Page
RAFIX 16 standard contact block, 1 NC + 1 NO, momentary, silver contacts, without lamp socket	曲	1.20.122.021/0000	2 - 64
RAFIX 16 standard contact block, 1 NC + 1 NO, momentary, gold contacts, without lamp socket	曲	1.20.122.031/0000	2 - 60
Label holder, flush, for square collar	8	5.07.620.004/0000	2 - 76
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 75

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, square collar**



Technical data see page 2 - 30

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

## RAFIX 16 mushroom-headed pushbutton, round collar



Technical data see page 2 - 30

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



## **RAFIX 16 mushroom-headed pushbutton, square collar, alignable without gaps**



Technical data see page 2 - 30

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

RAFIX 16



## **RAFIX 16 emergency stop pushbutton**



RAFIX 16

## Technical data

**General information** Form of button Colour of button Form of collar

#### Dimensions

Length of collar Diameter of collar Key grid Width of collar Overall height Mounting depth Mounting hole

#### Mechanical design

Mounting Contact function Contact arrangement Illuminability

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

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

ring nut latching according to contact block see order block

100 N acc. IEC 60947-5-5

Other specifications	
Operating life	30000
Degree of protection from front side Ambient temp. operating	IP65
min.	-25 °C
Ambient temp. operating without lamp max. Ambient temp. operating	+70 °C
with lamp max.	+55 °C
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Resistance to constant	
environment	according to
	IEC 600 68-2-3 and 2-30
Resistance at variable	
environment	according to IEC 600 68-2-14 and 2-33
Corresponding to CE	
Ma-Dir. 89/392	yes

yes IEC 60204, IEC 73

## Accessories RAFIX 16 emergency stop pushbutton

Description	Photo	Order no.	Page
RAFIX 16 universal contact block, 1 NC, momentary, silver contacts, without lamp socket		1.20.123.022/0000	2 - 65
RAFIX 16 universal contact block, 1 NC, momentary, gold contacts, without lamp socket		1.20.123.032/0000	2 - 61
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 75
Emergency stop label, yellow, round 60 mm, PVC adhesive, without legend	107 415	5.76.204.400/0400	2 - 77

Approvals

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 emergency stop pushbutton, square collar, illuminated**



Technical data see page 2 - 34

Only use universal contact blocks.

# RAFIX 16 emergency stop pushbutton, square collar, dupe-proof



Technical data see page 2 - 34

Only use universal contact blocks.

The positively driven mechanical arrangement is dupe-proof to EN 418.



## **RAFIX 16 emergency stop pushbutton, round collar, illuminated**



Technical data see page 2 - 34

Only use universal contact blocks.

RAFIX 16

# RAFIX 16 emergency stop pushbutton, round collar, dupe-proof



Technical data see page 2 - 34

Only use universal contact blocks.

The positively driven mechanical arrangement is dupe-proof to EN 418.



# RAFIX 16 emergency stop pushbutton, square collar, alignable without gaps, illuminated



Technical data see page 2 - 34

Only use universal contact blocks.

# RAFIX 16 emergency stop pushbutton, square collar, alignable without gaps, dupe-proof



Technical data see page 2 - 34

Only use universal contact blocks.

The positively driven mechanical arrangement is dupe-proof to EN 418.



### **RAFIX 16 safety emergency stop pushbutton, round collar, dupe-proof, non-blocking**



Technical data see page 2 - 34

Only use universal contact blocks. The positively driven mechanical arrangement is dupe-proof to EN 418. Special shape prevents blocking: Actuation cannot be interrupted by any jamming objects.

RAFIX 16

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



Technical data see page 2 - 34

Only use universal contact blocks.

The positively driven mechanical arrangement is dupe-proof to EN 418.



#### **RAFIX 16 toggle switch**



# Technical data

**General information** Form of lens Colour of toggle Form of collar

#### RAFIX 16

Dimensions Length of collar Diameter of collar Key grid Width of collar Overall height Mounting depth Mounting hole

#### Mechanical design

Mounting Contact function Contact arrangement Illuminability toggle see order block see order block

see order block see order block 25 x 25 mm see order block 18.4 mm 44.7 mm 16.2 mm

ring nut latching according to contact block no

<b>Mechanical characteristics</b> Robustness min.	100 N
Other specifications	
Degree of protection	
from front side	IP65
Ambient temp. operating	
min.	-25 °C
Ambient temp. operating	
without lamp max.	+70 °C
Ambient temp. operating	
with lamp max.	+55 °C
Storage temperature min.	-40 °C
Storage temperature max.	+85 °C
Resistance to constant	
environment	according to
	IEC 600 68-2-3 and 2-30
Resistance at variable	
environment	according to
	IEC 600 68-2-14 and 2-33
Operating life	
(operations)	300000

#### **Accessories RAFIX 16 toggle switch**

Description	Photo	Order no.	Page
RAFIX 16 standard contact block, 1 NC + 1 NO, momentary, silver contacts, without lamp socket	曲	1.20.122.021/0000	2 - 64
RAFIX 16 standard contact block, 1 NC + 1 NO, momentary, gold contacts, without lamp socket	曲	1.20.122.031/0000	2 - 60
Label holder, flush, for square collar	ð	5.07.620.004/0000	2 - 76
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 75

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 - 40

Only use contact blocks with "momentary" contact function.

# RAFIX 16 toggle switch, round collar

Pict.: black toggle		0.55,0 0.55,0	1,7+0,2 R0,8m03 16,2+0,2 ng
Contact function	Illuminability	Colour of toggle	Order no. complete
latching	no	opaque black	1.30.075.021/0100
latching	no	opaque red	1.30.075.021/0300

Technical data see page 2 - 40

Only use contact blocks with "momentary" contact function.


#### RAFIX 16 toggle switch, square collar, alignable without gaps



Technical data see page 2 - 40

Only use contact blocks with "momentary" contact function.

RAFIX 16

2



#### **RAFIX 16 potentiometer drive**



#### **Technical data**

2

RAFIX 16

<b>General information</b> Form of lens	handle	<b>Other specifications</b> Degree of protection	
Colour of handle	black	from front side	IP65
Form of collar	see order block	Ambient temp. operating	11 05
	See ofder block	min.	-25 °C
Dimensions		Ambient temp. operating	23 0
Length of collar	see order block	max.	+70 °C
Diameter of collar	see order block	Storage temperature min.	-40 °C
Key grid	25 x 25 mm	Storage temperature max.	+85 °C
Width of collar	see order block	Resistance to constant	
Overall height	23.65 mm	environment	IEC 600 68-2-3 and 2-30
Mounting depth	19.2 mm	Resistance at variable	
Mounting hole	16.2 mm	environment	IEC 600 68-2-14 and 2-33
Mechanical design			
Mounting	ring nut		

#### **Accessories Potentiometer drive**

Description	Photo	Order no.	Page
Label holder, flush, for square collar	8	5.07.620.004/0000	2 - 76
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 75

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



#### **RAFIX 16 potentiometer drive, square collar**



Technical data see page 2 - 44

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 potentiometer drive, round collar**



Technical data see page 2 - 44

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 potentiometer drive, square collar, alignable without gaps**



Technical data see page 2 - 44

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



#### **RAFIX 16 buzzer**



RAFIX 16

#### **Technical data**

General information		Electrical characteristics	<b>2</b> 4.14
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		
Sound	see order block	Mechanical characteristics	
		Robustness min.	100 N
Dimensions			
Length of collar	see order block	Other specifications	
Diameter of collar	see order block	Degree of protection	
Key grid	25 x 25 mm	from front side	IP65
Width of collar	see order block	Ambient temp. operating	1 05
			-25 °C
Overall height	6.95 mm	min.	-25 °C
Mounting depth	30.5 mm	Ambient temp. operating	
Mounting hole	16.2 mm	max.	+70 °C
		Storage temperature min.	-40 °C
Mechanical design		Storage temperature max.	+85 °C
Mounting	ring nut	Resistance to constant	
		environment	according to
Acoustic characteristics			IEC 600 68-2-3 and 2-30
Sonic pressure, 1 m		Resistance at variable	
distance min.	see order block	environment	according to
			IEC 600 68-2-14 and 2-33

#### **Accessories RAFIX 16 buzzer**

Description	Photo	Order no.	Page
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 75

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



#### **RAFIX 16 buzzer, square collar**



Technical data see page 2 - 48

12 V DC available on request.



Technical data see page 2 - 48

12 V DC available on request.

RAFIX

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### RAFIX 16 buzzer, square collar, alignable without gaps



Technical data see page 2 - 48

12 V DC available on request.

RAFIX 16

2



### **RAFIX 16 signal indicator**



# 2

RAFIX 16

#### Technical data

General information		Other specifications	
Form of lens	see order block	Degree of protection	
Colour of lens	see order block	from front side	IP65
Form of collar	see order block	Ambient temp. operating	
		min.	-25 °C
Dimensions		Ambient temp. operating	
Length of collar	see order block	without lamp max.	+70 °C
Diameter of collar	see order block	Ambient temp. operating	
Key grid	25 x 25 mm	with lamp max.	+55 °C
Width of collar	see order block	Storage temperature min.	-40 °C
Overall height	see order block	Storage temperature max.	+85 °C
0		0 1	+85 C
Mounting depth	30.5/44.7 mm	Resistance to constant	
Mounting hole	16.2 mm	environment	according to
			IEC 600 68-2-3 and 2-30
Mechanical design		Resistance at variable	
Mounting	ring nut	environment	according to
Illuminability	yes		IEC 600 68-2-14 and 2-33
Mechanical characteristics			
Robustness min.	100 N		
	100 11		

## **Accessories RAFIX 16 signal indicator**

Description	Photo	Order no.	Page
RAFIX 16 lamp socket W 2 x 4.6 d	<b>a</b>	1.71.212.001/0000	2 - 67
RAFIX 16 lamp socket W 2 x 4.6 d	and the second second	1.71.212.011/0000	2 - 68
LED W 2 x 4.6d superbright, white, 24 V		1.90.690.365/0000	5 - 16
Disassembly tool for LUMOTAST 25, RAFIX 16		5.05.800.042/0000	2 - 74 5 - 26
Label holder, flush, for square collar	8	5.07.620.004/0000	2 - 76
Fixing spanner for hexagon nut		5.58.002.034/0000	2 - 75

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".



2

RAFIX 16

#### **RAFIX 16 signal indicator, square lens**

Pict: green			<u>R0, 8m0×.</u> 16, 2+0, 2		
Form of lens	Form of collar	Colour of lens	olour of lens Order no. complete		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 - 52

Legending can only be made externally on a label holder.

RAFIX 16 signal indicator, square collar, flush lens					
Pict.: colourless				1,7+0,2	16,2+0,2
Form of lens	Form of collar	Colour of lens	Order no. complete	Order no. s	single parts
				Housing	Lens
flat lens	square	transparent colourless	1.65.124.301/1002	1.65.124.401/0000	5.49.077.011/1002
flat lens	square	transparent red	1.65.124.301/1306	1.65.124.401/0000	5.49.077.011/1306
flat lens	square	transparent yellow	1.65.124.301/1403	1.65.124.401/0000	5.49.077.011/1403
flat lens	square	transparent green	1.65.124.301/1505	1.65.124.401/0000	5.49.077.011/1505
flat lens	square	transparent blue	1.65.124.301/1607	1.65.124.401/0000	5.49.077.011/1607

Technical data see page 2 - 52

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

Stock items are marked by **bold printed** order numbers.



## RAFIX 16 signal indicator, square collar, protruding lens

Pict.: red		· · · · · · · · · · · · · · · · · · ·	5,0 5,0	1,7+0,2 ,7+0,	16,2+0,2
Form of lens	Form of collar	Colour of lens	Order no. complete	Order no. s	single parts
				Housing	Lens
protruding lens	square	transparent colourless	1.65.124.351/1002	1.65.124.451/0000	5.49.077.012/1002
protruding lens	square	transparent red	1.65.124.351/1306	1.65.124.451/0000	5.49.077.012/1306
protruding lens	square	transparent yellow	1.65.124.351/1403	1.65.124.451/0000	5.49.077.012/1403
protruding lens	square	transparent green	1.65.124.351/1505	1.65.124.451/0000	5.49.077.012/1505
protruding lens	square	transparent blue	1.65.124.351/1607	1.65.124.451/0000	5.49.077.012/1607

RAFIX 16

2

Technical data see page 2 - 52

#### Accessories:

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



Pict.: yellow		MIERT	9,20 9,20 9,20 9,20 9,55,0 8,00 7,15	1,7+0,2 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u>16,2+0,2</u>
Form of lens	Form of collar	Colour of lens	Order no. complete	Order no. s	single parts
				Housing	Lens
lens round	round	transparent colourless	1.65.124.021/1002	1.65.124.101/0000	5.49.263.007/1002
lens round	round	transparent red	1.65.124.021/1306	1.65.124.101/0000	5.49.263.007/1306
lens round	round	transparent yellow	1.65.124.021/1403	1.65.124.101/0000	5.49.263.007/1403
lens round	round	transparent green	1.65.124.021/1505	1.65.124.101/0000	5.49.263.007/1505
lens round	round	transparent blue	1.65.124.021/1607	1.65.124.101/0000	5.49.263.007/1607

Technical data see page 2 - 52

#### Accessories:

Legending can only be made externally on a label holder.



RAFIX 16

#### RAFIX 16 signal indicator, round collar, flush lens

Pict.: yellow			1,7+0,2 1,7+0,2 0 0 0 0 0 0 0 0 0 0 0 0 0	16,2+0,2	
Form of lens	Form of collar	Colour of lens	Order no. complete	Order no. s	single parts
				Housing	Lens
flat lens	round	transparent colourless	1.65.124.321/1002	1.65.124.421/0000	5.49.259.017/1002
flat lens	round	transparent red	1.65.124.321/1306	1.65.124.421/0000	5.49.259.017/1306
flat lens	round	transparent yellow	1.65.124.321/1403	1.65.124.421/0000	5.49.259.017/1403
flat lens	round	transparent green	1.65.124.321/1505	1.65.124.421/0000	5.49.259.017/1505
flat lens	round	transparent blue	1.65.124.321/1607	1.65.124.421/0000	5.49.259.017/1607

Technical data see page 2 - 52

#### Accessories:

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 - 52

#### Accessories:

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.: green			9,20 0,55,0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,7+0,2 1,7+0,2 0 0 0 0 0 0 0 0 0 0 0 0 0	<u>16,2+0,2</u>
Form of lens	Form of collar	Colour of lens	Order no. complete		single parts
				Housing	Lens
flat lens	square alignable	transparent colourless	1.65.124.551/1002	1.65.124.651/0000	5.49.077.011/1002
flat lens	square alignable	transparent red	1.65.124.551/1306	1.65.124.651/0000	5.49.077.011/1306
flat lens	square alignable	transparent yellow	1.65.124.551/1403	1.65.124.651/0000	5.49.077.011/1403
flat lens	square alignable	transparent green	1.65.124.551/1505	1.65.124.651/0000	5.49.077.011/1505
flat lens	square alignable	transparent blue	1.65.124.551/1607	1.65.124.651/0000	5.49.077.011/1607

Technical data see page 2 - 52

Accessories:

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

#### RAFIX 16 signal indicator, square collar, alignable without gaps, protruding lens

		lêctenlos anreibbor		1,7+0,2	<u>16,2+0,2</u>
Form of lens	Form of collar	Colour of lens	Order no. complete	Order no. s	single parts
				Housing	Lens
protruding lens	square alignable	transparent colourless	1.65.124.501/1002	1.65.124.661/0000	5.49.077.012/1002
protruding lens	square alignable	transparent red	1.65.124.501/1306	1.65.124.661/0000	5.49.077.012/1306
protruding lens	square alignable	transparent yellow	1.65.124.501/1403	1.65.124.661/0000	5.49.077.012/1403
protruding lens	square alignable	transparent green	1.65.124.501/1505	1.65.124.661/0000	5.49.077.012/1505
protruding lens	square alignable	transparent blue	1.65.124.501/1607	1.65.124.661/0000	5.49.077.012/1607

Technical data see page 2 - 52

#### Accessories:

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

RAFIX 16



**Technical data** 

#### **RAFIX 16 contact blocks with gold contacts**



16

#### Dimensions Operating life switching element (momentary) Lenath 22.2 mm Width 22.2 mm Contact resistance when 34.4 mm Height RAFIX Mounting depth (with actuator / indicator) 44.7 mm Mechanical design Mounting snap on actuator Contact system bridgecontact self cleaning **Contact materials** min. Au see order block Contact arrangement Contact function see order block see order block Lamp socket Terminals

Terminal marking X1 = +, X2 = -**Operating travel** 3 mm Robustness 100 N Mechanical characteristics Robustness acc. IEC 60947-5-5

#### **Flectrical characteristics**

Rated voltage min.	0.02 V
Rated voltage max.	
(AC/DC)	42 V
Rated current min.	0.001 A
Rated current max.	0.25 A

quick connector 2.8 x 0.8 according to DIN 50013,

new max. Other specifications Protection class Shock resistance acc. to IEC 60068-2-27 Ambient temp. operating Ambient temp. operating without lamp max. Ambient temp. operating with lamp max. Storage temperature min. Storage temperature max. Colour code Resistance to constant environment Resistance at variable environment Mechanical operating life latching (operations) Resistance to vibrations

acc. to IEC 60068-2-6

2000000  $50 \text{ m}\Omega$ Ш amplitude < 50g, 11ms, half sinusoidal -25 °C +70 °C +55 °C -40 °C +85 °C white bottom IEC 600 68-2-3 and 2-30 IEC 600 68-2-14 and 2-33 see order block

10 g at 20 ... 500 Hz

#### Accessories RAFIX 16 contact blocks with gold contacts

Description	Photo	Order no.	Page
Filament lamp, W 2 x 4.6d base, 24 - 30 V		1.90.120.005/0000	5 - 4
Filament lamp, W 2 x 4.6d base, 60 V		1.90.120.009/0000	5 - 4
Filament lamp, W 2 x 4.6d base, 48 V		1.90.120.010/0000	5 - 4
Filament lamp, W 2 x 4.6d base, 24 V	調査事	1.90.120.011/0000	5 - 4



# Accessories RAFIX 16 contact blocks with gold contacts

Description	Photo	Order no.	Page
Filament lamp, W 2 x 4.6d base, 12 V		1.90.120.012/0000	5 - 4
Filament lamp, W 2 x 4.6d base, 6 V		1.90.120.013/0000	5 - 4
LED W 2 x 4.6d superbright, red, 24 V		1.90.690.361/0000	5 - 16
LED W 2 x 4.6d superbright, green, 24 V		1.90.690.362/0000	5 - 16
LED W 2 x 4.6d superbright, yellow, 24 V		1.90.690.363/0000	5 - 16
LED W 2 x 4.6d superbright, blue, 24 V		1.90.690.364/0000	5 - 16
LED W 2 x 4.6d superbright, white, 24 V		1.90.690.365/0000	5 - 16
Multipole connector	1	5.05.510.421/0000	2 - 71
PCB plug-in socket, 10 contacts (universal application)	1	5.05.510.644/0000	2 - 70
Female quick-connect terminal DIN 46340-B 2.8-1-MS	T THE R . LANS.	5.37.540.024/8622	2 - 71
Plug distributor		5.37.540.029/6000	2 - 72
Protection against contact		5.55.103.105/0100	2 - 72

RAFIX 16



1.20.122.013/0000

1.20.122.051/0000

1.20.122.052/0000

#### **RAFIX 16 standard contact block, gold contacts, with lamp socket**

		<u>222,20±0,1</u> 8,		8,20 actuator with contact block	50
Contact function	Contact arrangement	Lamp socket	Rated voltage max. (AC/DC)	Rated current max.	Order no. complete
momentary	1 NC + 1 NO	W 2 x 4.6d	42 V	0.25 A	1.20.122.011/0000
momentary	2 NO	W 2 x 4.6d	42 V	0.25 A	1.20.122.012/0000

Technical data see page 2 - 58

2 NC

2 NO

1 NC + 1 NO

momentary

latching

latching

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

Contact blocks with "latching" contact function are used as switches.

When combined with pushbuttons and mushroom actuators, the switching position is visible, releasing is effected by actuating again.

42 V

42 V

42 V

0.25 A

0.25 A

0.25 A

#### RAFIX 16 standard contact block, gold contacts, without lamp socket

W 2 x 4.6d

W 2 x 4.6d

W 2 x 4.6d



momentary		42 V	0.25 A	1.20.122.031/0000
momentary	2 NO	42 V	0.25 A	1.20.122.032/0000
momentary	2 NC	42 V	0.25 A	1.20.122.033/0000
latching	1 NC + 1 NO	42 V	0.25 A	1.20.122.071/0000
latching	2 NO	42 V	0.25 A	1.20.122.072/0000

Technical data see page 2 - 58

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

Contact blocks with "latching" contact function are used as switches.

When combined with pushbuttons and mushroom actuators, the switching position is visible, releasing is effected by actuating again.



#### **RAFIX 16 universal contact block, gold contacts, with lamp socket**

				8,20 actuator with contact block	, 50
Contact function	Contact arrangement	Lamp socket	Rated voltage max. (AC/DC)	Rated current max.	Order no. complete
momentary	1 NC + 1 NO	W 2 x 4.6d	42 V	0.25 A	1.20.123.011/0000
momentary	1 NC	W 2 x 4.6d	42 V	0.25 A	1.20.123.012/0000
momentary	1 NO	W 2 x 4.6d	42 V	0.25 A	1.20.123.013/0000
momentary	2 NC	W 2 x 4.6d	42 V	0.25 A	1.20.123.014/0000
momentary	2 NO	W 2 x 4.6d	42 V	0.25 A	1.20.123.015/0000

Technical data see page 2 - 58

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

#### RAFIX 16 universal contact block, gold contacts, without lamp socket

				8,20 8,20 36 actuator with contact block	, 50
Contact function	Contact arrangement	Lamp socket	Rated voltage max. (AC/DC)	Rated current max.	Order no. complete
momentary	1 NC + 1 NO		42 V	0.25 A	1.20.123.031/0000
momentary	1 NC		42 V	0.25 A	1.20.123.032/0000
momentary	1 NO		42 V	0.25 A	1.20.123.033/0000
momentary	2 NC		42 V	0.25 A	1.20.123.034/0000
momentary	2 NO		42 V	0.25 A	1.20.123.035/0000

Technical data see page 2 - 58

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



# **RAFIX 16 contact blocks with silver contacts**



# 2

RAFIX 16

# **Technical data**

Dimensions		Thermic rated current	
Length	22.2 mm	I <sub>the</sub> , AC	5 A
Width	22.2 mm	Thermic rated current	071
Height	34.4 mm	I <sub>the</sub> , DC	2.5 A
Mounting depth (with	04.4 11111	Operating life switching	2.07
actuator / indicator)	44.7 mm	element AC	100000 at 6A, 800000 at 2A
	44.7 11111	Operating life switching	
Mechanical design		element DC	250000 at 220 V/0.2 A,
Mounting	snap on actuator	element DC	1000000 at 24 V/2 A
Contact system	bridgecontact self	Rated power DC	1000000 at 24 V/2 A 10 x I⊧
Contact system		Rated power AC	1.1 x l <sub>E</sub>
Company at an atomicale	cleaning		1.1 X IE
Contact materials	Ag	Contact resistance when	20 0
Contact arrangement	see order block	new max.	<b>20</b> mΩ
Contact function	see order block		
Lamp socket	see order block	Other specifications	
Terminals	quick connector 2.8 x 0.8	Protection class	II
Terminal marking	according to DIN 50013,	Approvals	ENEC 25 T 70 (55), UL,
_ · ·	X1 = +, X2 = -		CSA
Operating travel	3 mm	Corresponding to EU	
Robustness	100 N	directive N 72/73	yes
		Shock resistance acc. to	
Mechanical characteristics		IEC 60068-2-27	amplitude < 50g, 11ms,
Robustness	acc. IEC 60947-5-5		half sinusoidal
		Ambient temp. operating	
Electrical characteristics		min.	-25 °C
Rated insulation voltage		Ambient temp. operating	
acc. to VDE 0110, AC	250 V	without lamp max.	+70 °C
Rated insulation voltage		Ambient temp. operating	
acc. to VDE 0110, DC	300 V	with lamp max.	+55 °C
Ohmic rated current		Storage temperature min.	-40 °C
I <sub>R</sub>	6 A	Storage temperature max.	+85 °C
Rated motor current		Colour code	grey bottom
I <sub>M nenn</sub>	4 A	Resistance to constant	
Application category		environment	according to
acc. to VDE 0660 Teil 200	AC 15B 300 V		IEC 600 68-2-3 and 2-30
Application category		Resistance at variable	
acc. to VDE 0660 Teil 200	DC 13Q 300 V	environment	according to
Rated insulation voltage			IEC 600 68-2-14 and 2-33
U <sub>L</sub> , AC	250 V	Mechanical operating	
Rated insulation voltage		life latching (operations)	100000
U <sub>L</sub> , DC	300 V	Resistance to vibrations	
Rated voltage		acc. to IEC 60068-2-6	10 g at 20 500 Hz
$U_{\rm E}$ / Rated current I <sub>E</sub> , AC	250 V/1,5 A, 120 V/3,0 A V	Flame class acc. to UL 94	V 0
Rated voltage		Hot wire ignition acc.	-
$U_{\rm E}$ / Rated current I <sub>E</sub> ,DAC	250 V/0,27 A, 125 V/0,55 A,	to IEC 60695-2-1	yes
	60 V/1 A, 24 V/2 A V		,



#### Accessories RAFIX 16 contact blocks with silver contacts

		<b>a</b> .	-
Description	Photo	Order no.	Page
Filament lamp, W 2 x 4.6d base, 24 - 30 V		1.90.120.005/0000	5 - 4
Filament lamp, W 2 x 4.6d base, 60 V		1.90.120.009/0000	5 - 4
Filament lamp, W 2 x 4.6d base, 48 V		1.90.120.010/0000	5 - 4
Filament lamp, W 2 x 4.6d base, 24 V		1.90.120.011/0000	5 - 4
Filament lamp, W 2 x 4.6d base, 12 V		1.90.120.012/0000	5 - 4
Filament lamp, W 2 x 4.6d base, 6 V		1.90.120.013/0000	5 - 4
LED W 2 x 4.6d superbright, red, 24 V		1.90.690.361/0000	5 - 16
LED W 2 x 4.6d superbright, green, 24 V		1.90.690.362/0000	5 - 16
LED W 2 x 4.6d superbright, yellow, 24 V		1.90.690.363/0000	5 - 16
LED W 2 x 4.6d superbright, blue, 24 V		1.90.690.364/0000	5 - 16
LED W 2 x 4.6d superbright, white, 24 V		1.90.690.365/0000	5 - 16
Multipole connector	1	5.05.510.421/0000	2 - 71
PCB plug-in socket, 10 contacts (universal application)	1	5.05.510.644/0000	2 - 70
Female quick-connect terminal DIN 46340-B 2.8-1-MS		5.37.540.024/8622	2 - 71
Plug distributor		5.37.540.029/6000	2 - 72
Protection against contact		5.55.103.105/0100	2 - 72

RAFIX 16



#### **RAFIX 16 standard contact block, silver contacts, with lamp socket**

		<u>222,20±0</u> , 8.		8,20 8,20 actuator with contact block	50
Contact function	Contact arrangement	Lamp socket	Rated insulation voltage U <sub>I</sub> , AC	Ohmic rated current I <sub>R</sub>	Order no. complete
momentary	1 NC + 1 NO	W 2 x 4.6d	250 V	6 A	1.20.122.001/0000
momentary	2 NO	W 2 x 4.6d	250 V	6 A	1.20.122.002/0000
momentary	2 NC	W 2 x 4.6d	250 V	6 A	1.20.122.003/0000
latching	1 NC + 1 NO	W 2 x 4.6d	250 V	6 A	1.20.122.041/0000
latching	2 NO	W 2 x 4.6d	250 V	6 A	1.20.122.042/0000

RAFIX 16

Technical data see page 2 - 62

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

RAFIX 16 standard contact block, silver contacts, without lamp socket

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

#### ]22,20±0, 8,20 8,20 36,50 actuator with contact block **Contact function Contact arrangement Lamp socket Rated insulation** Ohmic rated current Order no. complete voltage U<sub>I</sub>, AC IR 1 NC + 1 NO 250 V 6 A 1.20.122.021/0000 momentary momentary 2 NO 250 V 6 A 1.20.122.022/0000 momentary 2 NC 250 V 6 A 1.20.122.023/0000 250 V 1.20.122.061/0000 latching 1 NC + 1 NO 6 A 250 V 1.20.122.062/0000 latching 2 NO 6 A

Technical data see page 2 - 62

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

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



#### **RAFIX 16 universal contact block, silver contacts, with lamp socket**

				8,20 actuator with contact block	50
Contact function	Contact arrangement	Lamp socket	Rated insulation voltage U <sub>I</sub> , AC	Ohmic rated current I <sub>R</sub>	Order no. complete
momentary	1 NC + 1 NO	W 2 x 4.6d	250 V	6 A	1.20.123.001/0000
momentary	1 NC	W 2 x 4.6d	250 V	6 A	1.20.123.002/0000
momentary	1 NO	W 2 x 4.6d	250 V	6 A	1.20.123.003/0000
momentary	2 NC	W 2 x 4.6d	250 V	6 A	1.20.123.004/0000
momentary	2 NO	W 2 x 4.6d	250 V	6 A	1.20.123.005/0000

Technical data see page 2 - 62

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

# RAFIX 16 universal contact block, silver contacts, without lamp socket

				8,20 8,20 36 actuator with contact block	.50
Contact function	Contact arrangement	Lamp socket	Rated insulation voltage U <sub>I</sub> , AC	Ohmic rated current I <sub>R</sub>	Order no. complete
momentary	1 NC + 1 NO		250 V	6 A	1.20.123.021/0000
momentary	1 NC		250 V	6 A	1.20.123.022/0000
momentary	1 NO		250 V	6 A	1.20.123.023/0000
momentary	2 NC		250 V	6 A	1.20.123.024/0000
momentary	2 NO		250 V	6 A	1.20.123.025/0000

Technical data see page 2 - 62

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



#### **RAFIX 16 lamp socket**



RAFIX

16

# Technical data

#### Dimensions

Length Width Height Mounting depth

Mechanical design Mounting Lamp socket Terminals Terminal marking Robustness

#### **Electrical characteristics** Rated voltage max. Rated power max.

**Other specifications** Approvals see order block see order block see order block see order block

see order block wedge-base W 2 x 4.6d quick connector 2.8 x 0.8 X1 = anode, X2 = cathode 100 N

60 V 1.2 W

> ENEC 25 T 70 (55), UL, CSA

Shock resistance acc. to IEC 60068-2-27

Ambient temp. operating min. Ambient temp. operating with lamp max. Storage temperature min. Storage temperature max. Resistance to constant environment

Resistance at variable environment

Flame class acc. to UL 94 Hot wire ignition acc. to IEC 60695-2-1 Resistance to vibrations acc. to IEC 60068-2-6 amplitude < 50g, D 11ms, half sinusoidal

-25 °C

+55 °C -40 °C +85 °C

according to IEC 600 68-2-3 and 2-30

according to IEC 600 68-2-14 and 2-33 V 0

yes

10 g at 20 ... 500 Hz

#### **Accessories RAFIX 16 lamp socket**

Description	Photo	Order no.	Page
Filament lamp, W 2 x 4.6d base, 24 - 30 V		1.90.120.005/0000	5 - 4
Filament lamp, W 2 x 4.6d base, 60 V		1.90.120.009/0000	5 - 4
Filament lamp, W 2 x 4.6d base, 48 V		1.90.120.010/0000	5 - 4
Filament lamp, W 2 x 4.6d base, 24 V		1.90.120.011/0000	5 - 4
Filament lamp, W 2 x 4.6d base, 12 V		1.90.120.012/0000	5 - 4
Filament lamp, W 2 x 4.6d base, 6 V		1.90.120.013/0000	5 - 4
LED W 2 x 4.6d superbright, red, 24 V		1.90.690.361/0000	5 - 16



#### **Accessories RAFIX 16 lamp socket**

Description	Photo	Order no.	Page
LED W 2 x 4.6d superbright, green, 24 V		1.90.690.362/0000	5 - 16
LED W 2 x 4.6d superbright, yellow, 24 V		1.90.690.363/0000	5 - 16
LED W 2 x 4.6d superbright, blue, 24 V		1.90.690.364/0000	5 - 16
LED W 2 x 4.6d superbright, white, 24 V		1.90.690.365/0000	5 - 16
PCB plug-in socket, 2 contacts (lamp socket)	۲	5.05.510.649/0000	2 - 70
Protection against contact		5.55.103.105/0100	2 - 72

## RAFIX 16 lamp socket W 2 x 4.6 d



Technical data see page 2 - 66

A notch on the lamp socket identifies the cathode side.



#### RAFIX 16 lamp socket W 2 x 4.6 d



Technical data see page 2 - 66

A notch on the lamp socket identifies the cathode side.

RAFIX 16

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#### **RAFIX 16 special accessories**



RAFIX 16

# PCB plug-in socket

r ob plug-in socket			
		<u>ل</u>	
Short text	Feature 1	Feature 2	Order no.
PCB plug-in socket, 10 contacts (universal application)	22 mm	24 mm	5.05.510.644/0000
PCB plug-in socket, 6 contacts (2 NO, lamp socket)	22 mm	24 mm	5.05.510.645/0000
PCB plug-in socket, 6 contacts (1 NC, 1 NO, lamp socket)	22 mm	24 mm	5.05.510.646/0000
PCB plug-in socket, 6 contacts (2 NC, lamp socket)	22 mm	24 mm	5.05.510.647/0000
PCB plug-in socket, 4 contacts (2 NC)	22 mm	24 mm	5.05.510.648/0000
PCB plug-in socket, 2 contacts (lamp socket)	22 mm	24 mm	5.05.510.649/0000

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



## **Multipole connector**

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Short text		Feature 1	Feature 2	Order no.
Multipole connector		21.8 mm	23.2 mm	5.05.510.421/0000

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

Female quick-connect terminal DIN 46340-B 2.8-1-MS			
Contraction of the second s			
Short text	Feature 1	Feature 2	Order no.
Female quick-connect terminal DIN 46340-B 2.8-1-MS			5.37.540.024/8622

With latching detent for mating with a multipole connector.



#### **Plug distributor**



Short text
Plug distributor

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

Feature 1

Feature 2

Order no.

5.37.540.029/6000

RAFIX 16	Protection against contact			
	Short text	Feature 1	Feature 2	Order no.
	Protection against contact			5.55.103.105/0100

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



## **Protection against contact**



Short text	Feature 1	Feature 2	Order no.
Protection against contact (VBG 4 with lamp socket 1.71.212.011)			5.55.103.134/0700

You can use the protection against contact to cover the terminals of the lamp socket 1.71.212.011/0000 so that they are finger-proof to VBG 4.

Series capacitor			
Short text	Feature 1	Feature 2	Order no.
Short text Series capacitor, 125 V/48 V~, 50 Hz, 25 mA	Feature 1	Feature 2	Order no. 5.03.771.333/0000

Fully encapsulated, with a 2.8 x 0.8 mm quick-connect tab in a touch-proof arrangement.



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RAFIX 16

#### **Disassembly tool**



For replacing pushbutton and signal indicator lenses.

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



Short text	Feature 1	Feature 2	Order no.
Protective cover, suitable for lead seal			5.05.800.055/0000

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



# Fixing spanner for hexagon nut Short text Feature 1 Feature 2 Order no. 5.58.002.034/0000 Fixing spanner for hexagon nut

**RAFIX 16 insulating housing** 



Pict.: 3-module			
Short text	Feature 1	Feature 2	Order no.
RAFIX 16 insulating housing, 1-module, light grey/dark grey	55 mm	100 mm	1.20.810.001/0000
RAFIX 16 insulating housing, 1-module, yellow/yellow	55 mm	100 mm	1.20.810.002/0000
RAFIX 16 insulating housing, 2-module, light grey/dark grey	115 mm	100 mm	1.20.820.001/0000
RAFIX 16 insulating housing, 3-module, light grey/dark grey	115 mm	100 mm	1.20.830.001/0000
RAFIX 16 insulating housing, 4-module, light grey/dark grey	145 mm	100 mm	1.20.840.001/0000
Label sheet for housings			5.40.451.283/0000

· Attractive plastic housing to accommodate up to 4 control components

2 cable entries prepared: 1-,2-,3-part: M20x1,5, 4-part: M25x1,5
Degree of protection IP 65 to DIN

• All grey housings with overlay, legending possible with legend inserts

Wall mounting with 2 screws through housing bottom prepared

• Dimensions x (feature 1) x 100 mm x 74 mm

• Accessories: 50 pre-perforated legend inserts on a DIN A4 sheet for printing with a PC printer



#### **RAFIX 16 label holder, flush, for square collar**



#### Accessories:

Legend label 23 x 16 for label holder, without legend: 5.73.111.000/0000 Legending available on request.

RAFIX 16

#### RAFIX 16 label holder, flush, for round collar



#### Accessories:

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

Legending available on request.



#### **RAFIX 16 label holder, protruding, for square flush fitting collar**



#### Accessories:

Legend label 23 x 16, without legend: 5.73.112.000/0000

Legending available on request.

# Emergency stop label, yellow, round 60 mm, PVC adhesive



Short text	Feature 1	Feature 2	Order no.
Emergency stop label, yellow, round 60 mm, PVC adhesive, without legend	60 mm		5.76.204.400/0400
Emergency stop label, yellow, round 60 mm, PVC adhesive, with legend "NOT-AUS"	60 mm		5.76.204.401/0400
Emergency stop label, yellow, round 60 mm, PVC adhesive, with legend "EMERGENCY STOP"	60 mm		5.76.204.403/0400