RAFI
SOLUTIONS WITH PASSION

General data

LUMOTAST 25 pushbutton range
• Illuminable pushbuttons and signal lamps. Please order lamps/LEDs separately.
• Mounting hole diameter: 16.2 mm
• 42 V/100 mA max.
• Water-jet proof IP65
• Low profile
• Lamp socket Bi-Pin T 1 for LEDs and filament lamps
• Keyed socket connector and flat ribbon cable or PCB plug-in socket
• Ring nut or click fixing method.

Content

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LUMO
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Series LUMOTAST 25

16.2 mm mounting hole diameter

Design Click-Version

1. As delivered
2. Insert pushbutton in hole
3. Actuate once
4. Insert connector with flat-ribbon cable

Disassembly Click-Version

Click-Version from front (only for pushbuttons and signal lamps with special tool for dismounting)

1. Grip body/lens

2. Pull out body/lens

3. Release click lever

4. Pull out pushbutton/signal lamp with cable

Pushbuttons

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LUMO
25

Series LUMOTAST 25

16.2 mm mounting hole diameter
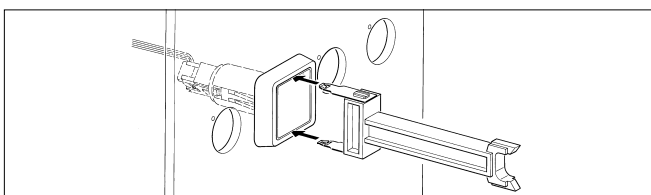
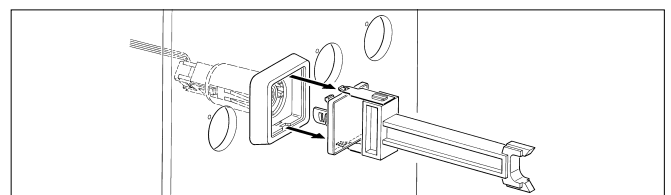## Design Click-Version

1. As delivered
2. Insert pushbutton in hole
3. Actuate once
4. Insert connector with flat-ribbon cable
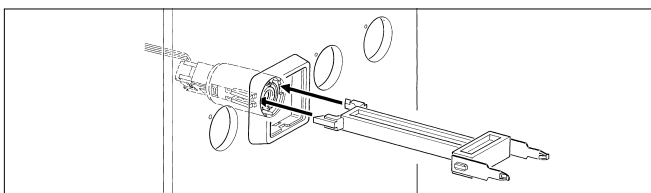
Disassembly Click-Version

Click-Version from front (only for pushbuttons and signal lamps with special tool for dismounting)

1. Grip body/lens

2. Pull out body/lens

3. Release click lever

4. Pull out pushbutton/signal lamp with cable

Pushbuttons

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Dimensional drawing

With quick connector and flat-ribbon cable
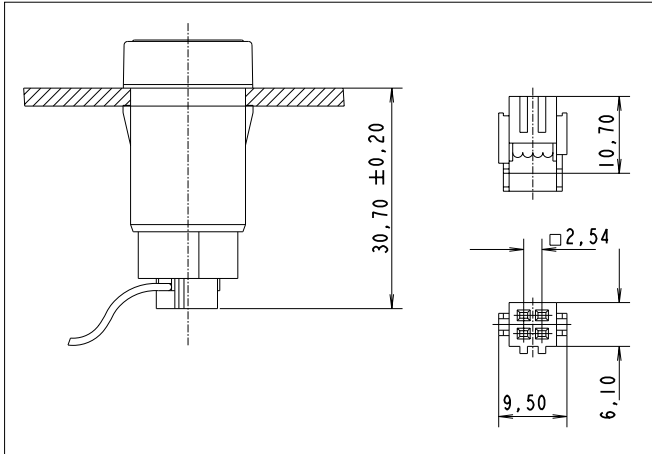
Connection diagram (PCB top view)
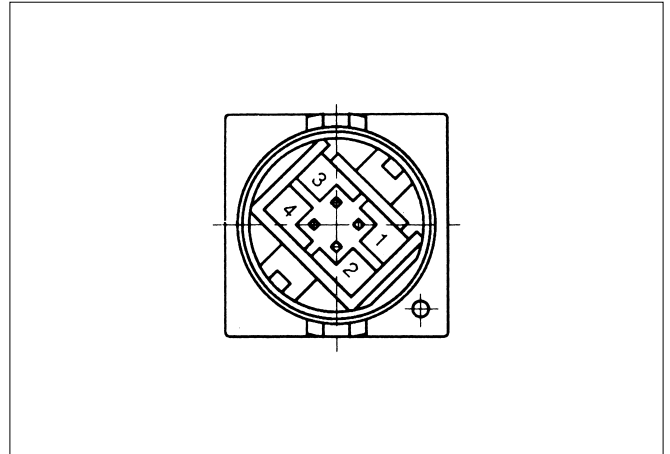
1 + 4 = pushbutton connection 2 + 3 = lamp connection

With plug-in socket
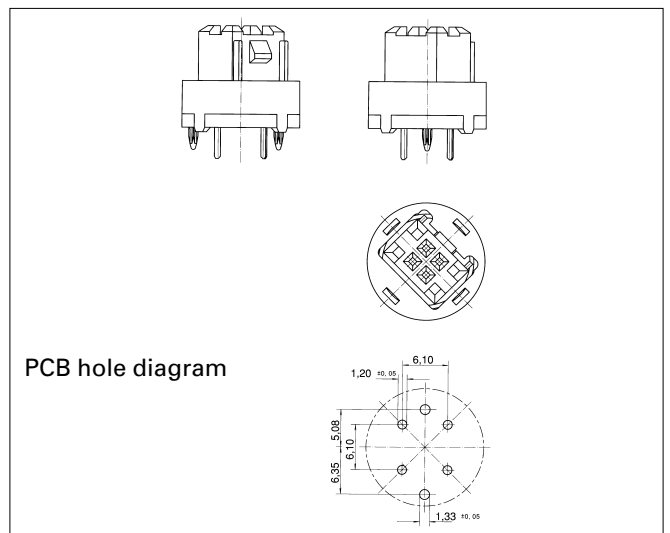
Front panel top view

PCB top view

1+4 contact connection
2+3 lamp connection

Plug-in socket for PCB

PCB hole diagram

Pushbuttons

RAFI
SOLUTIONS WITH PASSION

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LUMOTAST 25 illuminated pushbutton

Pict.: with colourless lens | with blue lens | Panel cut-out

LUMO
25

Technical data

General information

Form of lens	see order block
Colour of lens	see order block
Form of collar	square

Dimensions

Length of collar	25 mm
Width of collar	25 mm
Overall height	7.1 mm
Mounting depth with connector	30.7 mm
Mounting depth with plug-in socket	33.4 mm
Mounting hole	16.2 mm

Mechanical design

Mounting	see order block
Terminals	pin connector 4-pol./ plug-in socket
Contact system	snap-action contact
Contact function	momentary
Contact arrangement	1 NO
Contact materials	Au
Illuminability	yes
Lamp socket	Bi-Pin T 1/T $1\frac{1}{4}$

Mechanical characteristics

Operating force max.	6 N
Operating travel	3 mm
Switching travel	2 mm
Robustness min.	100 N

Electrical characteristics

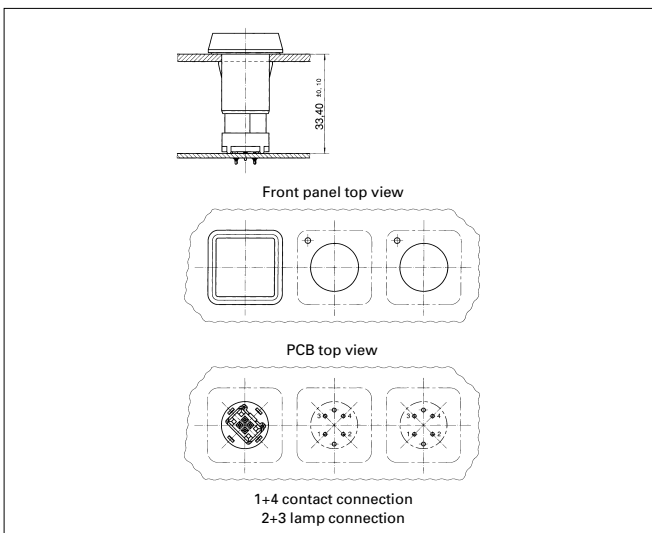|	
Rated voltage AC/DC max.	42 V
Rated voltage AC/DC min.	0.02 V
Rated current AC/DC max.	100 mA
Rated current AC/DC min.	0.01 mA
Contact resistance max.	100 mΩ
Bouncing time max.	5 ms

Other specifications

Operating life (operations)	1,000,000
Degree of protection from front side	IP65
Ambient temp. operating without lamp min.	-25 °C
Ambient temp. operating without lamp max.	+70 °C
Ambient temp. operating with lamp min.	-25 °C
Ambient temp. operating with lamp max.	+55 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Resistance to climate acc. to IEC 600 68-2-3 und 2-30	according to IEC 600 68-2-3 and 2-30
Resistance at variable environment acc. to IEC 600 68-2-14 und 2-33	according to IEC 600 68-2-14 and 2-33
Weight	7 g

Accessories LUMOTAST 25 illuminated pushbutton

Description	Photo	Order no.	Page
Filament lamp, Bi-Pin T $1\frac{1}{4}$ base, 12 V		**1.90.180.474/0000**	5 - 5
Filament lamp, Bi-Pin T $1\frac{1}{4}$ base, 28 V		**1.90.180.475/0000**	5 - 5
LED Bi-Pin T 1 superbright, red, 24 V		**1.90.690.351/0000**	5 - 17

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

RAFI
SOLUTIONS WITH PASSION

Accessories LUMOTAST 25 illuminated pushbutton

Description	Photo	Order no.	Page
LED Bi-Pin T 1 superbright, green, 24 V		**1.90.690.352/0000**	5 - 17
LED Bi-Pin T 1 superbright, yellow, 24 V		**1.90.690.353/0000**	5 - 17
LED Bi-Pin T 1 superbright, blue, 24 V		**1.90.690.354/0000**	5 - 17
LED Bi-Pin T 1 superbright, white, 24 V		**1.90.690.355/0000**	5 - 17
LED Bi-Pin T 1, red, 3 V		**1.90.691.026/0000**	5 - 17
LED Bi-Pin T 1, green, 3 V		**1.90.691.027/0000**	5 - 17
LED Bi-Pin T 1, yellow, 3 V		**1.90.691.028/0000**	5 - 17
Plug-in socket for PCB		**5.00.645.036/0000**	5 - 25
Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin)		**5.03.771.306/0000**	5 - 24
Disassembly tool for LUMOTAST 25, RAFIX 16		**5.05.800.042/0000**	2 - 65 5 - 24
Blanking cap complete with sealing disc and ring nut, square		**5.05.800.049/0100**	5 - 29
Label holder, flush, for square collar		**5.07.620.004/0000**	2 - 66
Flat ribbon cable, 4-wire, 1 m long		5.37.700.124/0000	5 - 25
Fixing spanner M 15, M 16		**5.58.002.019/0105**	5 - 23
Legend insert, blank, use only for transparent lenses		**5.70.635.000/2000**	
Legend label 23 x 16 for label holder, without legend		**5.73.111.000/0000**	2 - 66
Socket connector, 4-pin		**5.92.025.368/0000**	5 - 24

1

LUMO 25

RAFI
SOLUTIONS WITH PASSION

LUMOTAST 25 illuminated pushbutton with flush lens, „Click" quick-assembly feature

Pict.: with colourless lens

Panel cut-out
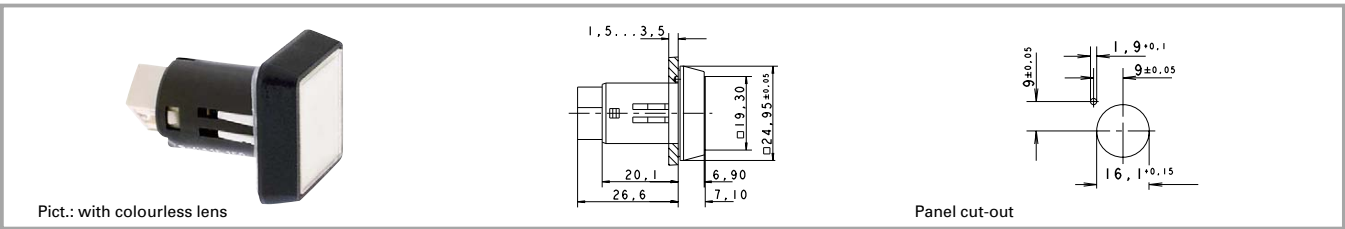
Contact function	Contact arrangement	Order no. without lens	Note
momentary	1 NO	**1.15.150.506/0000**	Please include the desired lens in your order.

Technical data see page 1 - 22

Lenses:
Lens, square, transparent colourless: **5.49.077.011/1002**
Lens, square, transparent red: **5.49.077.011/1306**
Lens, square, transparent yellow: **5.49.077.011/1403**
Lens, square, transparent green: **5.49.077.011/1505**
Lens, square, transparent blue: **5.49.077.011/1607**

Note when using LEDs: A notch on the lamp socket identifies the cathode side.

LUMOTAST 25 illuminated pushbutton with flush lens, ring nut fixing

Pict.: with green lens

Panel cut-out

Contact function	Contact arrangement	Order no. without lens	Note
momentary	1 NO	**1.15.150.556/0000**	Please include the desired lens in your order.

Technical data see page 1 - 22

Lenses:
Lens, square, transparent colourless: **5.49.077.011/1002**
Lens, square, transparent red: **5.49.077.011/1306**
Lens, square, transparent yellow: **5.49.077.011/1403**
Lens, square, transparent green: **5.49.077.011/1505**
Lens, square, transparent blue: **5.49.077.011/1607**

Note when using LEDs: A notch on the lamp socket identifies the cathode side.

LUMO 25

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

Pushbuttons

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LUMOTAST 25 illuminated pushbutton with protruding lens, „Click" quick-assembly feature

Pict.: with red lens

Panel cut-out

Contact function	Contact arrangement	Order no. without lens	Note
momentary	1 NO	1.15.150.606/0000	Please include the desired lens in your order.

Technical data see page 1 - 22

Lenses:
Lens, square, transparent colourless: **5.49.077.012/1002**
Lens, square, transparent red: **5.49.077.012/1306**
Lens, square, transparent yellow: **5.49.077.012/1403**
Lens, square, transparent green: **5.49.077.012/1505**
Lens, square, transparent blue: **5.49.077.012/1607**

Note when using LEDs: A notch on the lamp socket identifies the cathode side.

LUMO 25

LUMOTAST 25 illuminated pushbutton with protruding lens, ring nut fixing

Pict.: with blue lens

Panel cut-out

Contact function	Contact arrangement	Order no. without lens	Note
momentary	1 NO	1.15.150.656/0000	Please include the desired lens in your order.

Technical data see page 1 - 22

Lenses:
Lens, square, transparent colourless: **5.49.077.012/1002**
Lens, square, transparent red: **5.49.077.012/1306**
Lens, square, transparent yellow: **5.49.077.012/1403**
Lens, square, transparent green: **5.49.077.012/1505**
Lens, square, transparent blue: **5.49.077.012/1607**

Note when using LEDs: A notch on the lamp socket identifies the cathode side.

1

LUMOTAST 25 illuminated pushbutton with protruding collar, „Click" quick-assembly feature

Pict.: with colourless lens

Panel cut-out

Contact function	Contact arrangement	Order no. without lens	Note
momentary	1 NO	1.15.150.706/0000	Please include the desired lens in your order.

Technical data see page 1 - 22

Lenses:
Lens, square, transparent colourless: **5.49.077.011/1002**
Lens, square, transparent red: **5.49.077.011/1306**
Lens, square, transparent yellow: **5.49.077.011/1403**
Lens, square, transparent green: **5.49.077.011/1505**
Lens, square, transparent blue: **5.49.077.011/1607**

Note when using LEDs: A notch on the lamp socket identifies the cathode side.

LUMOTAST 25 illuminated pushbutton with protruding collar, ring nut fixing

Pict.: with yellow lens

Panel cut-out

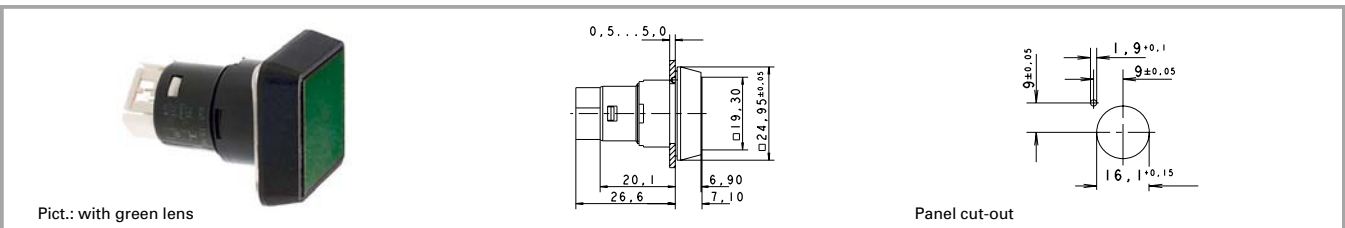| Contact function	Contact arrangement	Order no. without lens	Note
momentary	1 NO	1.15.150.756/0000	Please include the desired lens in your order.

Technical data see page 1 - 22
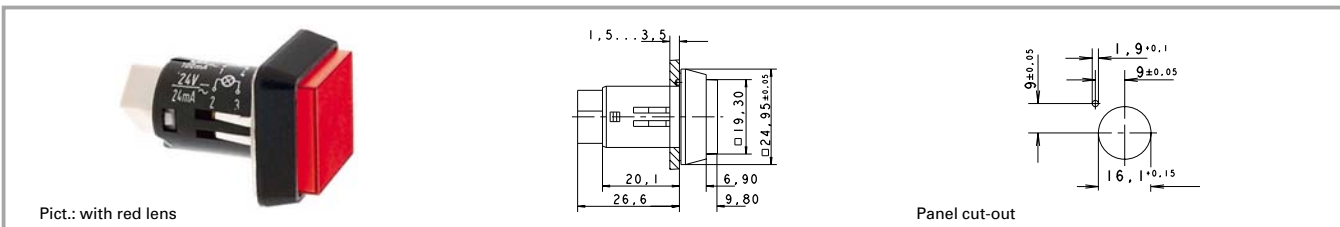
Lenses:
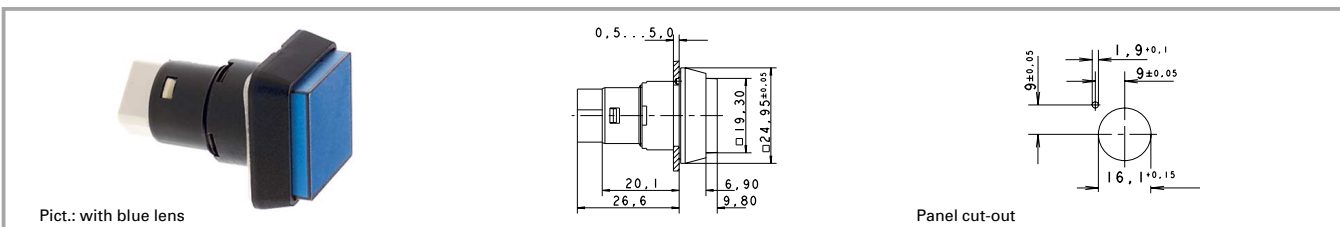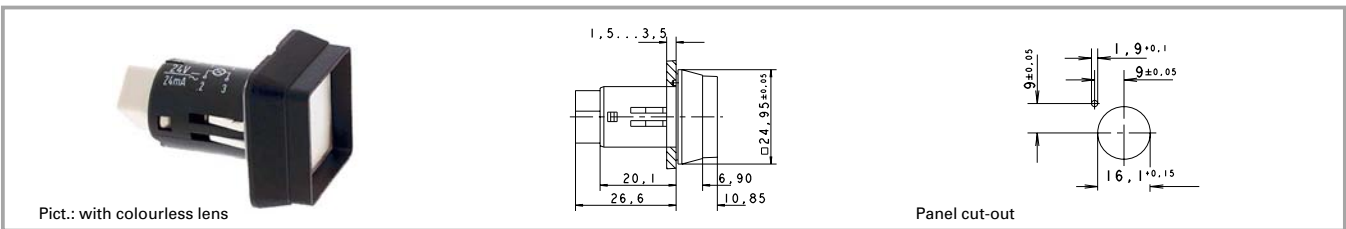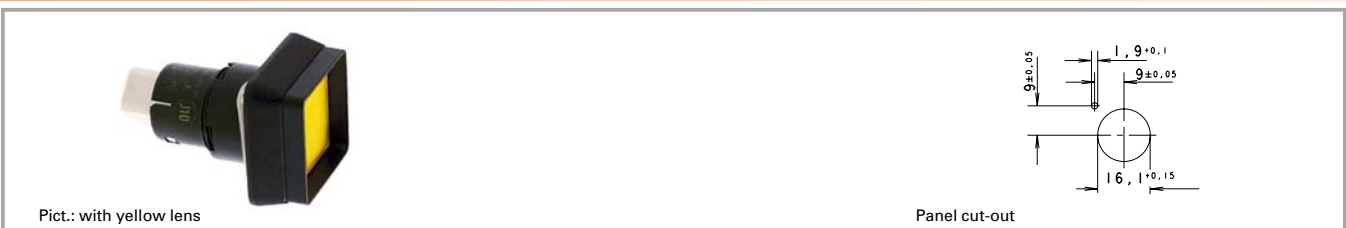Lens, square, transparent colourless: **5.49.077.011/1002**
Lens, square, transparent red: **5.49.077.011/1306**
Lens, square, transparent yellow: **5.49.077.011/1403**
Lens, square, transparent green: **5.49.077.011/1505**
Lens, square, transparent blue: **5.49.077.011/1607**

Note when using LEDs: A notch on the lamp socket identifies the cathode side.

Pushbuttons

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SOLUTIONS WITH PASSION

LUMOTAST 25 selector switch

Panel cut-out

Technical data

General information

Form of lens	handle
Colour of handle	black opaque
Form of collar	square

Dimensions

Length of collar	25 mm
Width of collar	25 mm
Overall height	17 mm
Mounting depth with connector	30.7 mm
Mounting depth with plug-in socket	33.4 mm
Mounting hole	16.2 mm

Mechanical design

Mounting	see order block
Terminals	pin connector 4-pol./ plug-in socket
Contact system	snap-action contact
Contact function	see order block
Contact arrangement	1 NO
Contact materials	Au
Illuminability	no

Mechanical characteristics

Operating force min.	0,03 Nm
Rotating angle	see order block
Robustness max.	1,5 Nm

Electrical characteristics

Rated voltage AC/DC max.	42 V
Rated voltage AC/DC min.	0.02 V
Rated current AC/DC max.	100 mA
Rated current AC/DC min.	0.01 mA
Contact resistance max.	100 mΩ
Bouncing time max.	5 ms

Other specifications

Operating life (operations)	500000
Degree of protection from front side	IP65
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °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
Weight	8 g

Accessories LUMOTAST 25 selector switch

Description	Photo	Order no.	Page
Plug-in socket for PCB		**5.00.645.036/0000**	5 - 25
Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin)		**5.03.771.306/0000**	5 - 24
Blanking cap complete with sealing disc and ring nut, square		**5.05.800.049/0100**	5 - 29
Label holder, flush, for square collar		**5.07.620.004/0000**	2 - 66

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

Pushbuttons

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SOLUTIONS WITH PASSION

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Accessories LUMOTAST 25 selector switch

Description	Photo	Order no.	Page
Flat ribbon cable, 4-wire, 1 m long		5.37.700.124/0000	5 - 25
Fixing spanner M 15, M 16		**5.58.002.019/0105**	5 - 23
Socket connector, 4-pin		**5.92.025.368/0000**	5 - 24

LUMOTAST 25 selector switch, ring nut fixing

LUMO
25

Panel cut-out
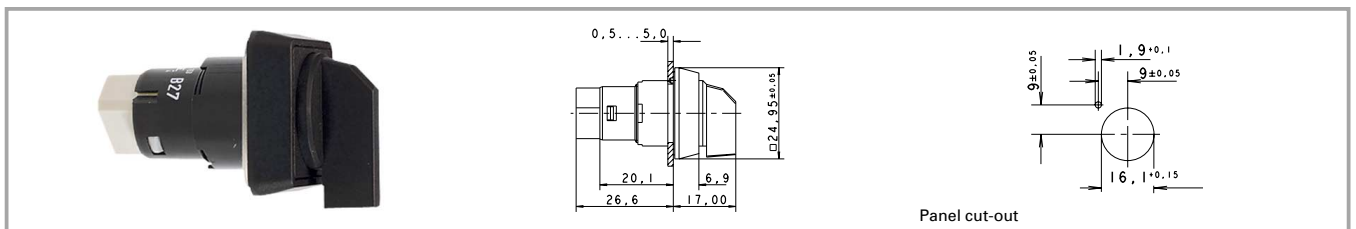
Contact arrangement	Contact function	Rotating angle		Form of lens	Order no.
1 NO	latching	right, 1 x 90°		handle	1.15.153.106/0100

Technical data see page 1 - 28

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

RAFI
SOLUTIONS WITH PASSION

LUMOTAST 25 keylock switch

Panel cut-out

Technical data

General information

Colour of lens	black opaque
Form of collar	square

Dimensions

Length of collar	25 mm
Width of collar	25 mm
Overall height	32.3 mm
Mounting depth with connector	30.7 mm
Mounting depth with plug-in socket	33.4 mm
Mounting hole	16.2 mm

Mechanical design

Mounting	ring nut
Terminals	pin connector 4-pol./ plug-in socket
Contact system	snap-action contact
Contact function	latching
Contact arrangement	1 NO
Contact materials	Au
Illuminability	no
Lamp socket	no
Lock	cylinder lock
Wafers	8 pins
Lock type	5201
Number of locking positions	10000
Main key	yes
Symmetric key	yes
Key removal position	see order block

Mechanical characteristics

Operating force max.	1,5 Nm
Rotating angle	90°

Electrical characteristics

Rated voltage AC/DC max.	42 V
Rated voltage AC/DC min.	0.02 V
Rated current AC/DC max.	100 mA
Rated current AC/DC min.	0.01 mA
Contact resistance max.	100 mΩ
Bouncing time max.	5 ms

Other specifications

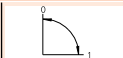|	
Operating life (operations)	50000
Degree of protection from front side	IP65
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Resistance to constant environment	according to IEC 600 68-2-3 and 2-30
Resistance at variable environment	according to IEC 600 68-2-14 and 2-33
Weight	20 g

Accessories LUMOTAST 25 keylock switch

Description	Photo	Order no.	Page
Plug-in socket for PCB		**5.00.645.036/0000**	5 - 25
Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin)		**5.03.771.306/0000**	5 - 24
Blanking cap complete with sealing disc and ring nut, square		**5.05.800.049/0100**	5 - 29

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

Accessories LUMOTAST 25 keylock switch
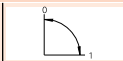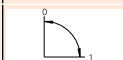
Description	Photo	Order no.	Page
Label holder, flush, for square collar		**5.07.620.004/0000**	2 - 66
Flat ribbon cable, 4-wire, 1 m long		5.37.700.124/0000	5 - 25
Fixing spanner M 15, M 16		**5.58.002.019/0105**	5 - 23
Spare key		5.58.015.201/0000	
Legend label 23 x 16 for label holder, without legend		**5.73.111.000/0000**	2 - 66
Socket connector, 4-pin		**5.92.025.368/0000**	5 - 24

LUMOTAST 25 keylock switch

Panel cut-out
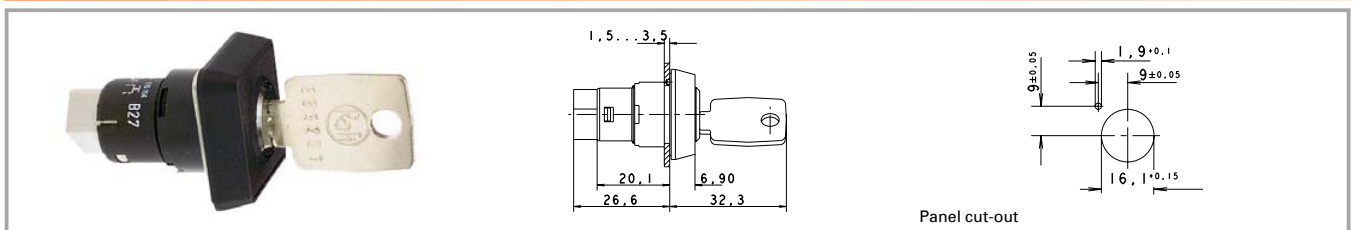
Contact arrangement	Contact function	Rotating angle		Key removal position	Colour of lens	Order no.
1 NO	latching	90°		0	black opaque	**1.15.156.001/0000**
1 NO	latching	90°		0 + 1	black opaque	**1.15.156.011/0000**

Technical data see page 1 - 30

Included: 2 keys.

1

LUMOTAST 25 emergency stop pushbutton

Pict.: black collar   yellow collar   Panel cut-out
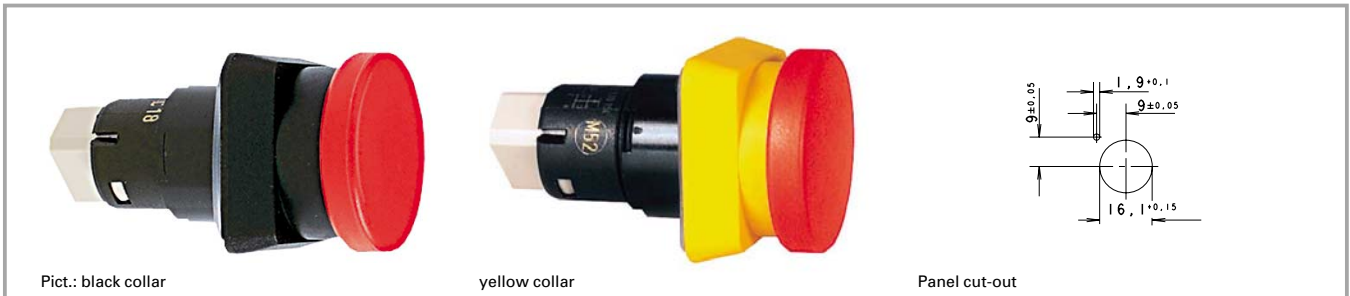
Technical data

General information
Colour of lens	opaque red
Form of collar	square
Colour of collar	see order block

Dimensions
Length of collar	25 mm
Width of collar	25 mm
Overall height	18.5 mm
Mounting depth with connector	30.7 mm
Mounting depth with plug-in socket	33.4 mm
Mounting hole	16.2 mm

Mechanical design
Mounting	ring nut
Terminals	pin connector 4-pol./ plug-in socket
Contact system	snap-action contact
Contact function	latching
Contact arrangement	2 NC (forcibly actuated)
Contact materials	Au
Illuminability	no

Mechanical characteristics
Operating force max.	10 N
Operating travel	2.6 mm
Switching travel	2 mm
Robustness min.	100 N

Electrical characteristics
Rated voltage AC/DC max.	25 V
Rated voltage AC/DC min.	0.02 V
Rated current AC/DC max.	100 mA (1A short-circuit current)
Rated current AC/DC min.	0.01 mA
Contact resistance max.	100 mΩ
Bouncing time max.	10 ms

Other specifications
Operating life	15000
Degree of protection from front side	IP65
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °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
Weight	9 g
Approvals	TÜV/UL according to EN 60947-5-5 and -5-1/A2, UL 508

Accessories LUMOTAST 25 emergency stop pushbutton

| Description	Photo	Order no.	Page
Plug-in socket for PCB		**5.00.645.036/0000**	5 - 25
Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin)		**5.03.771.306/0000**	5 - 24
Blanking cap complete with sealing disc and ring nut, square		**5.05.800.049/0100**	5 - 29
Label holder, flush, for square collar		**5.07.620.004/0000**	2 - 66

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

Pushbuttons

Accessories LUMOTAST 25 emergency stop pushbutton

Description	Photo	Order no.	Page
Flat ribbon cable, 4-wire, 1 m long		5.37.700.124/0000	5 - 25
Fixing spanner M 15, M 16		**5.58.002.019/0105**	5 - 23
Legend label 23 x 16 for label holder, without legend		**5.73.111.000/0000**	2 - 66
Emergency stop label, yellow, adhesive, round 60 mm, without legend		**5.76.204.425/0400**	
Emergency stop label, yellow, adhesive, round 60 mm, with legend „NOT-AUS"		**5.76.204.426/0400**	
Emergency stop label, yellow, adhesive, round 60 mm, with legend „ARRET-D'URGENCE"		5.76.204.427/0400	
Emergency stop label, yellow, adhesive, round 60 mm, with legend „EMERGENCY-STOP"		**5.76.204.428/0400**	
Emergency stop label, yellow, adhesive, round 60 mm, with legend „ARRESTO-D'EMERGENZA"		5.76.204.429/0400	
Socket connector, 4-pin		**5.92.025.368/0000**	5 - 24

LUMOTAST 25 emergency stop pushbutton, ring nut fixing

Pict.: black collar

Panel cut-out
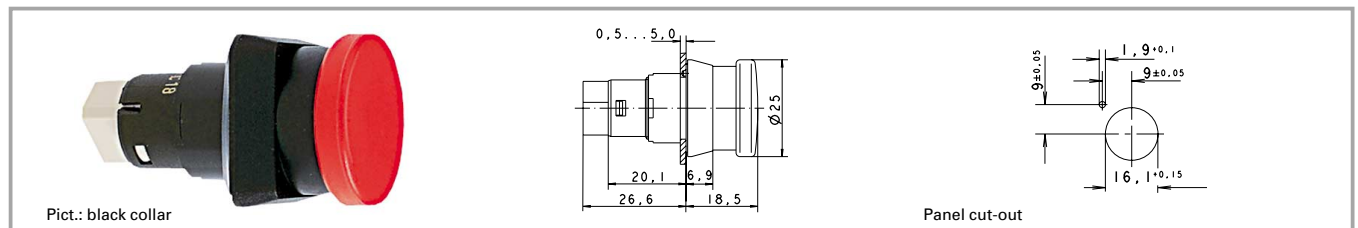
Contact function	Contact arrangement	Colour of collar	Order no. complete	Order no. single parts	
				Housing	Lens
latching	2 NC (forcibly actuated)	black	**1.15.154.006/0301**	-	-
latching	2 NC (forcibly actuated)	yellow	**1.15.154.016/0301**	-	-

Technical data see page 1 - 32

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

1

LUMOTAST 25 signal lamp
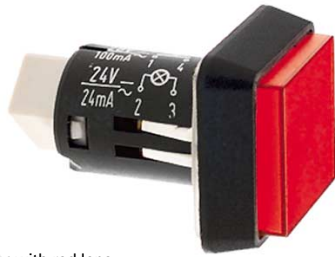
Pict.: with red lens   Panel cut-out
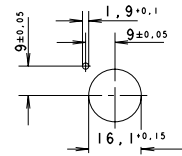
Technical data

General information

Form of lens	square
Colour of lens	see order block

Dimensions

Length of collar	25 mm
Width of collar	25 mm
Overall height	9.8 mm
Mounting depth with connector	30.7 mm
Mounting depth with plug-in socket	33.4 mm
Mounting hole	16.2 mm

Mechanical design

Mounting	see order block
Terminals	pin connector 4-pol./ plug-in socket
Lamp socket	Bi-Pin T 1/T 1$\frac{1}{4}$
Lamp	filament lamp / LED

Electrical characteristics

Voltage limit max.	24 V
Power limit max.	0,7 W

Other specifications

Degree of protection from front side	IP65
Weight	7 g
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C

Accessories LUMOTAST 25 signal lamp

Description	Photo	Order no.	Page
Filament lamp, Bi-Pin T 1$\frac{1}{4}$ base, 12 V		**1.90.180.474/0000**	5 - 5
Filament lamp, Bi-Pin T 1$\frac{1}{4}$ base, 28 V		**1.90.180.475/0000**	5 - 5
LED Bi-Pin T 1 superbright, red, 24 V		**1.90.690.351/0000**	5 - 17
LED Bi-Pin T 1 superbright, green, 24 V		**1.90.690.352/0000**	5 - 17
LED Bi-Pin T 1 superbright, yellow, 24 V		**1.90.690.353/0000**	5 - 17
LED Bi-Pin T 1 superbright, blue, 24 V		**1.90.690.354/0000**	5 - 17
LED Bi-Pin T 1 superbright, white, 24 V		**1.90.690.355/0000**	5 - 17
LED Bi-Pin T 1, red, 3 V		**1.90.691.026/0000**	5 - 17

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

Accessories LUMOTAST 25 signal lamp

Description	Photo	Order no.	Page
LED Bi-Pin T 1, green, 3 V		**1.90.691.027/0000**	5 - 17
LED Bi-Pin T 1, yellow, 3 V		**1.90.691.028/0000**	5 - 17
Plug-in socket for PCB		**5.00.645.036/0000**	5 - 25
Cable (flat ribbon cable 10 cm with socket connector and male quick connector, AMP 4-pin)		**5.03.771.306/0000**	5 - 24
Disassembly tool for LUMOTAST 25, RAFIX 16		**5.05.800.042/0000**	2 - 65 5 - 24
Blanking cap complete with sealing disc and ring nut, square		**5.05.800.049/0100**	5 - 29
Label holder, flush, for square collar		**5.07.620.004/0000**	2 - 66
Flat ribbon cable, 4-wire, 1 m long		5.37.700.124/0000	5 - 25
Fixing spanner M 15, M 16		**5.58.002.019/0105**	5 - 23
Legend insert, blank, use only for transparent lenses		**5.70.635.000/2000**	
Legend label 23 x 16 for label holder, without legend		**5.73.111.000/0000**	2 - 66
Socket connector, 4-pin		**5.92.025.368/0000**	5 - 24

LUMOTAST 25 signal lamp, 24 V, „Click" quick-assembly feature
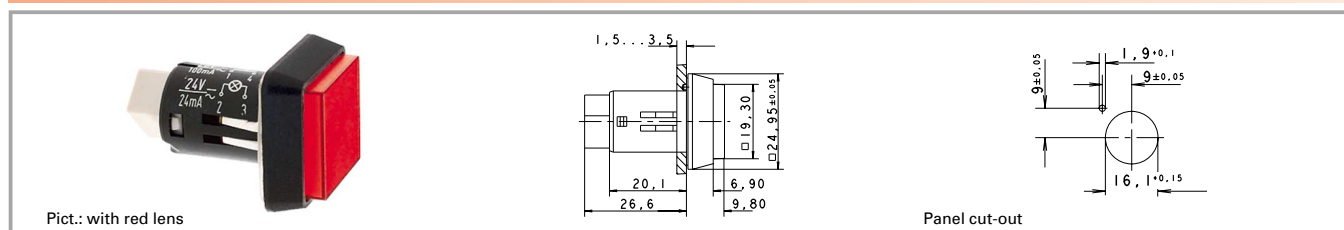
Pict.: with red lens

Panel cut-out

Voltage limit max.	Power limit max.	Lamp socket	Order no. without lens	Note
24 V	0.7 W	Bi-Pin T 1/T 1¼	1.65.122.906/0000	Please include the desired lens in your order.

Technical data see page 1 - 34

Lenses:
Lens, square, transparent colourless: **5.49.077.014/1002**
Lens, square, transparent red: **5.49.077.014/1306**
Lens, square, transparent yellow: **5.49.077.014/1403**
Blende quadratisch, transparent grün: **5.49.077.014/1505**
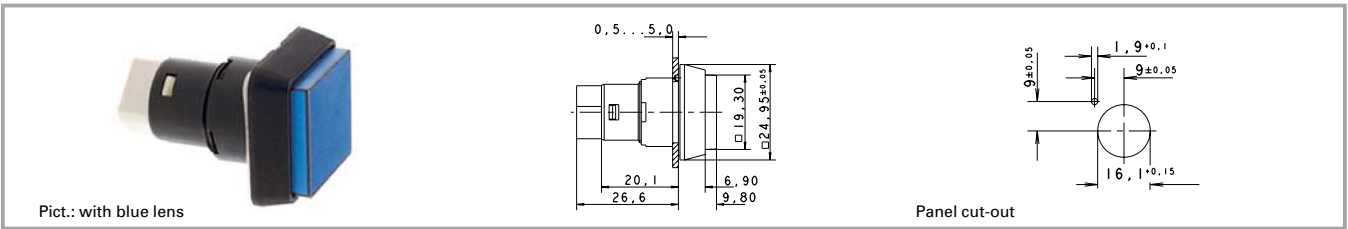Lens, square, transparent blue: **5.49.077.014/1607**

Do not press in lens in disassembled condition. Note when using a LED: A notch on the lamp identifies the cathode side.

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

RAFI
SOLUTIONS WITH PASSION

1

LUMOTAST 25 signal lamp, 24 V, ring nut fixing

Pict.: with blue lens

0,5...5,0

□ 19,30
□ 24,95±0,05

20,1
26,6

6,90
9,80

Panel cut-out

1,9 +0,1
9 ±0,05
9 ±0,05

16,1 +0,15

Voltage limit max.	Power limit max.	Lamp socket	Order no. without lens	Note
24 V	0.7 W	Bi-Pin T 1/T 1¼	1.65.122.956/0000	Please include the desired lens in your order.

LUMO 25

Technical data see page 1 - 34

Lenses:
Lens, square, transparent colourless: **5.49.077.014/1002**
Lens, square, transparent red: **5.49.077.014/1306**
Lens, square, transparent yellow: **5.49.077.014/1403**
Lens, square, transparent green: **5.49.077.014/1505**
Lens, square, transparent blue: **5.49.077.014/1607**

Do not press in lens in disassembled condition. Note when using LED: A notch on the lamp socket identifies the cathode side.

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