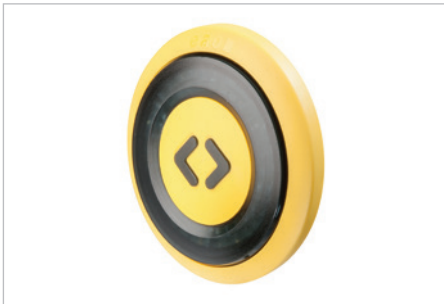


57 Front mounting

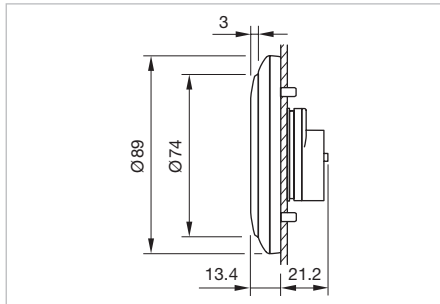
Single side pushbutton



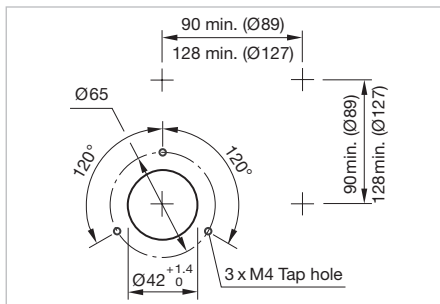
The preview is based on a sample product. This can differ from your current configuration.

Product features

- User friendly, extra large operating area of Ø 74 mm
- Two independently illuminated feedback rings
- Raised, illuminated symbols conform to TSI PRM & ADA
- Integrated finding tone for visually impaired persons
- Cable and front bezel are available as single parts
- Please fill in the form and forward it to your local EAO partner by e-mail or fax. The electronic form is available at <http://www.eao.com/offer57>

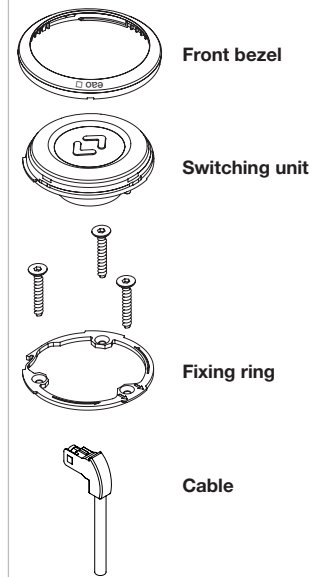


Dimensions [mm]



Mounting cut-outs [mm]

Equipment consisting of



Front bezel

plastic		aluminium
<input type="checkbox"/> green RAL 6032	<input type="checkbox"/> red RAL 3000	<input type="checkbox"/> natural anodized
<input type="checkbox"/> blue RAL 5015	<input type="checkbox"/> yellow RAL 1023	
<input type="checkbox"/> grey RAL 7040	<input type="checkbox"/> black RAL 9017	

Symbol insert

plastic		aluminium
<input type="checkbox"/> green RAL 6032	<input type="checkbox"/> red RAL 3000	<input type="checkbox"/> natural anodized
<input type="checkbox"/> blue RAL 5015	<input type="checkbox"/> yellow RAL 1023	
<input type="checkbox"/> grey RAL 7040		

Symbol

<input type="checkbox"/> Symbol plastic <input type="checkbox"/> Symbol aluminium, natural anodized				<input type="checkbox"/> Symbol aluminium, natural anodized			
<input type="checkbox"/> black RAL 9011	<input type="checkbox"/> black RAL 9011	<input type="checkbox"/> black RAL 9011	<input type="checkbox"/> black RAL 9011 <input type="checkbox"/> white RAL 9003	<input type="checkbox"/> black RAL 9011	<input type="checkbox"/> black RAL 9011	<input type="checkbox"/> black RAL 9011	<input type="checkbox"/> black RAL 9011

Symbol illumination

<input type="checkbox"/> with (only plastic symbol inserts)	<input type="checkbox"/> without
---	----------------------------------

Finding tone

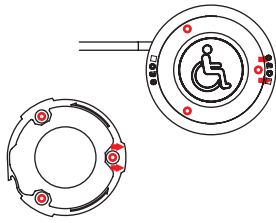
<input type="checkbox"/> standard 65 dB (A)	<input type="checkbox"/> without
---	----------------------------------

Supply voltage

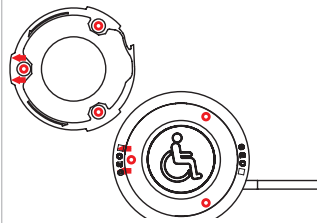
<input type="checkbox"/> 16 – 63 VDC	<input type="checkbox"/> 50 – 143 VDC
--------------------------------------	---------------------------------------

Cable exit

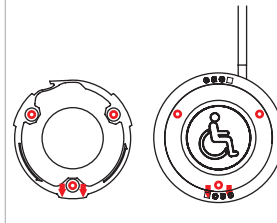
☐ cable exit left



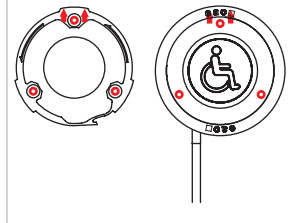
☐ cable exit right



☐ cable exit top



☐ cable exit bottom



Cable length

☐ A = 200 mm

☐ A = 1000 mm

☐ A = 2000 mm

☐ _____ mm

Cable and Connector type

Cable	Connector	Connector pin assignment		
<input type="checkbox"/> 4 x 0.24 mm ²	<input type="checkbox"/> Core end-sleeves		<input type="checkbox"/> standard	<input type="checkbox"/> special
<input type="checkbox"/> 4 x 0.50 mm ²	<input type="checkbox"/> AMP MateNLok	Pin 1	1	—
<input type="checkbox"/> 6 x 0.24 mm ²	<input type="checkbox"/> WAGO X-COM 769	Pin 2	2	—
<input type="checkbox"/> 6 x 0.50 mm ²	<input type="checkbox"/> DEUTSCH connector	Pin 3	3	—
		Pin 4	4	—
		Pin 5	5	—
		Pin 6	6	—

Symbol illumination	Finding tone	Number of strands	Wiring diagram
X	X	6	<p>VDC = 16 - 63VDC/50 - 143VDC</p>
—	X	6	<p>VDC = 16 - 63VDC/50 - 143VDC</p>
—	X	4	<p>VDC = 16 - 63VDC/50 - 143VDC</p>

Symbol illumination	Finding tone	Number of strands	Wiring diagram
X	—	4	<p>VDC = 16 - 63VDC/50 - 143VDC</p>
—	—	4	<p>VDC = 16 - 63VDC/50 - 143VDC</p>

Legend

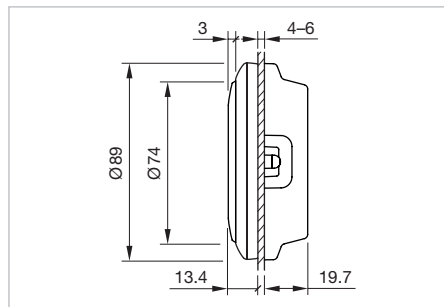
A = VDC finding tone
 B = VDC outer ring/symbol
 C = VDC inner ring
 D = VDC
 E = Switch
 F = Load
 G = 0 V
 H = Inner ring
 I = Outer ring
 K = Symbol
 L = Finding tone

Single side pushbutton

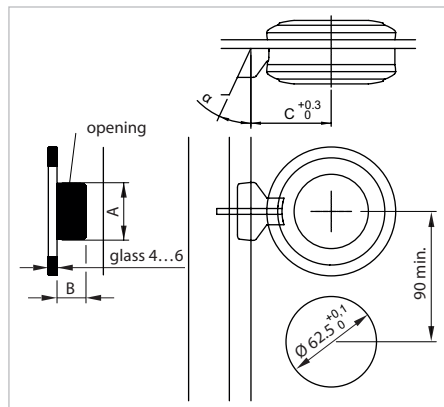
The preview is based on a sample product. This can differ from your current configuration.

Product features

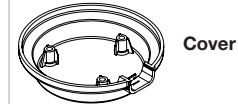
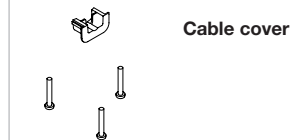
- User friendly, extra large operating area of Ø 74 mm
- For glass thickness 4 – 6 mm
- Two independently illuminated feedback rings
- Raised, illuminated symbols conform to TSI PRM & ADA
- Integrated finding tone for visually impaired persons
- Cable and front bezel are available as single parts
- Please fill in the form and forward it to your local EAO partner by e-mail or fax. The electronic form is available at <http://www.eao.com/offer57>



Dimensions [mm]



Mounting cut-outs [mm]

Equipment consisting of**Front bezel/
Switching unit****Cover****Cable cover**

	α (°)	A (mm)	B (mm)	C (mm)
Cable cover standard	0	18 max.	11.5 max.	45
Cable cover standard 45°	45	18 max.	11.5 max.	45
Cable cover funnel 0°	0	24 max.	17.5 max.	57
Cable cover funnel 10°	10	24 max.	17.5 max.	57
Cable cover funnel 15°	15	24 max.	17.5 max.	57
Cable cover funnel 25°	25	24 max.	17.5 max.	57

Front bezel

plastic

☐ green RAL 6032☐ blue RAL 5015☐ grey RAL 7040☐ red RAL 3000☐ yellow RAL 1023☐ black RAL 9017

aluminium

☐ natural anodized**Symbol insert**

plastic

☐ green RAL 6032☐ blue RAL 5015☐ grey RAL 7040☐ red RAL 3000☐ yellow RAL 1023

aluminium

☐ natural anodized**Symbol**☐ Symbol plastic☐ Symbol aluminium, natural anodized☐ Symbol aluminium, natural anodized☐ black RAL 9011☐ black RAL 9011☐ black RAL 9011
☐ black RAL 9011
☐ white RAL 9003
☐ black RAL 9011☐ black RAL 9011☐ black RAL 9011☐ black RAL 9011

57 Glass mounting

Symbol illumination

☐ with (only plastic symbol inserts «Open/Close»)

☐ without

Finding tone

☐ standard 65 dB (A)

☐ without

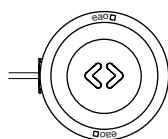
Supply voltage

☐ 16 – 63 VDC

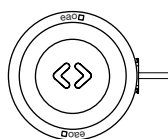
☐ 50 – 143 VDC

Cable exit (view from outside)

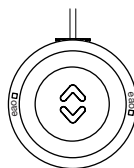
☐ cable exit left



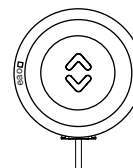
☐ cable exit right



☐ cable exit top



☐ cable exit bottom



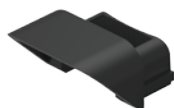
Cable cover

Standard

☐ 0°



☐ 45°



Funnel

☐ 0°



☐ 10°



☐ 15°



☐ 45°



Cable length

☐ A = 200 mm

☐ A = 1000 mm

☐ A = 2000 mm

☐ _____ mm

Cable and Connector type

Cable	Connector	Connector pin assignment		
<input type="checkbox"/> 4 x 0.24 mm ²	<input type="checkbox"/> Core end-sleeves		<input type="checkbox"/> standard	<input type="checkbox"/> special
<input type="checkbox"/> 4 x 0.50 mm ²	<input type="checkbox"/> AMP MateNLok	Pin 1	1	—
<input type="checkbox"/> 6 x 0.24 mm ²	<input type="checkbox"/> WAGO X-COM 769	Pin 2	2	—
<input type="checkbox"/> 6 x 0.50 mm ²	<input type="checkbox"/> DEUTSCH connector	Pin 3	3	—
		Pin 4	4	—
		Pin 5	5	—
		Pin 6	6	—

Symbol illumination	Finding tone	Number of strands	Wiring diagram
X	X	6	<p>VDC = 16 - 63VDC/50 - 143VDC</p>
-	X	6	<p>VDC = 16 - 63VDC/50 - 143VDC</p>
-	X	4	<p>VDC = 16 - 63VDC/50 - 143VDC</p>

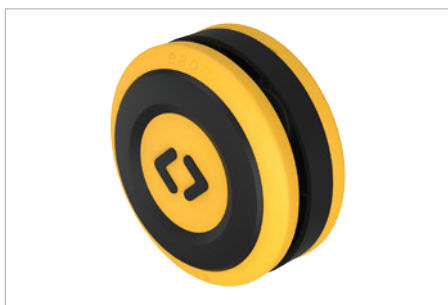
Symbol illumination	Finding tone	Number of strands	Wiring diagram
X	-	4	<p>VDC = 16 - 63VDC/50 - 143VDC</p>
-	-	4	<p>VDC = 16 - 63VDC/50 - 143VDC</p>

Legend

- A = VDC finding tone
- B = VDC outer ring/symbol
- C = VDC inner ring
- D = VDC
- E = Switch
- F = Load
- G = 0 V
- H = Inner ring
- I = Outer ring
- K = Symbol
- L = Finding tone

57 Glass mounting

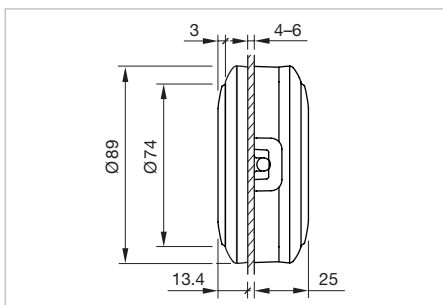
Double side pushbutton



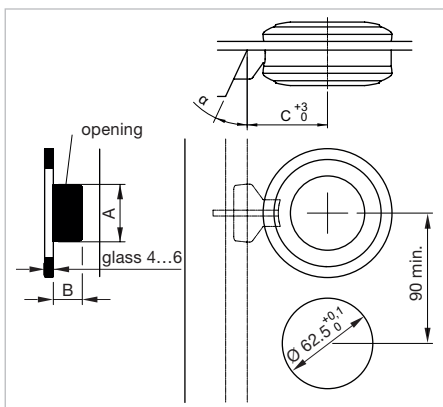
Musterabbildung kann von Ihrem ausgewählten Artikel abweichen.

Product features

- User friendly, extra large operating area of $\varnothing 74$ mm
- For glass thickness 4 – 6 mm
- Two independently illuminated feedback rings
- Raised, illuminated symbols conform to TSI PRM & ADA
- Integrated finding tone for visually impaired persons
- Cable and front bezel are available as single parts
- Please fill in the form and forward it to your local EAO partner by e-mail or fax. The electronic form is available at <http://www.eao.com/offer57>

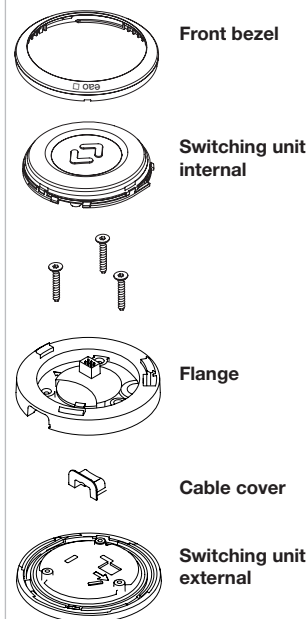


Dimensions [mm]



Mounting cut-outs [mm]

















Equipment consisting of



	α (°)	A (mm)	B (mm)	C (mm)
Cable cover standard	0	18 max.	11.5 max.	45
Cable cover standard 45°	45	18 max.	11.5 max.	45
Cable cover funnel 0°	0	24 max.	17.5 max.	57
Cable cover funnel 10°	10	24 max.	17.5 max.	57
Cable cover funnel 15°	15	24 max.	17.5 max.	57
Cable cover funnel 25°	25	24 max.	17.5 max.	57

Front bezel external			Frontrahmen internal		
plastic		aluminium	plastic		aluminium
<input type="checkbox"/> green RAL 6032	<input type="checkbox"/> red RAL 3000	<input type="checkbox"/> natural anodized	<input type="checkbox"/> green RAL 6032	<input type="checkbox"/> red RAL 3000	<input type="checkbox"/> natural anodized
<input type="checkbox"/> blue RAL 5015	<input type="checkbox"/> yellow RAL 1023		<input type="checkbox"/> blue RAL 5015	<input type="checkbox"/> yellow RAL 1023	
<input type="checkbox"/> grey RAL 7040	<input type="checkbox"/> black RAL 9017		<input type="checkbox"/> grey RAL 7040	<input type="checkbox"/> black RAL 9017	

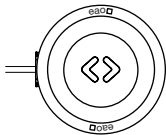
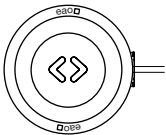
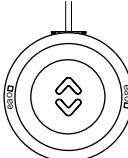
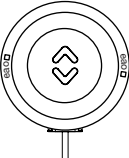
Symbol insert external			Symboleinsatz internal		
Plastic		Aluminium	Plastic		Aluminium
<input type="checkbox"/> green RAL 6032	<input type="checkbox"/> red RAL 3000	<input type="checkbox"/> natural anodized	<input type="checkbox"/> green RAL 6032	<input type="checkbox"/> red RAL 3000	<input type="checkbox"/> natural anodized
<input type="checkbox"/> blue RAL 5015	<input type="checkbox"/> yellow RAL 1023		<input type="checkbox"/> blue RAL 5015	<input type="checkbox"/> yellow RAL 1023	
<input type="checkbox"/> grey RAL 7040	<input type="checkbox"/> black RAL 9017		<input type="checkbox"/> grey RAL 7040	<input type="checkbox"/> black RAL 9017	


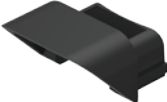




Symbol/Symbol colour external				Symbol/Symbol colour internal			
<input type="checkbox"/> Symbol plastic <input type="checkbox"/> Symbol aluminium, natural anodized				<input type="checkbox"/> Symbol plastic <input type="checkbox"/> Symbol aluminium, natural anodized			
							
<input type="checkbox"/> black RAL 9011	<input type="checkbox"/> black RAL 9011	<input type="checkbox"/> black RAL 9011	<input type="checkbox"/> black RAL 9011 <input type="checkbox"/> white RAL 9003	<input type="checkbox"/> black RAL 9011	<input type="checkbox"/> black RAL 9011	<input type="checkbox"/> black RAL 9011	<input type="checkbox"/> black RAL 9011
<input type="checkbox"/> Symbol aluminium, natural anodized				<input type="checkbox"/> Symbol aluminium, natural anodized			
							
<input type="checkbox"/> black RAL 9011	<input type="checkbox"/> black RAL 9011	<input type="checkbox"/> black RAL 9011	<input type="checkbox"/> black RAL 9011	<input type="checkbox"/> black RAL 9011	<input type="checkbox"/> black RAL 9011	<input type="checkbox"/> black RAL 9011	<input type="checkbox"/> black RAL 9011

Symbol illumination external		Symbol illumination internal	
<input type="checkbox"/> with (only plastic symbol inserts «Open/Close»)	<input type="checkbox"/> without	<input type="checkbox"/> with (only plastic symbol inserts «Open/Close»)	<input type="checkbox"/> without

Finding tone external		Finding tone internal	
<input type="checkbox"/> standard 65 dB (A)	<input type="checkbox"/> without	<input type="checkbox"/> standard 65 dB (A)	<input type="checkbox"/> without

Supply voltage	
<input type="checkbox"/> 16 – 63 VDC	<input type="checkbox"/> 50 – 143 VDC

Cable exit (view from outside)			
<input type="checkbox"/> cable exit left	<input type="checkbox"/> cable exit right	<input type="checkbox"/> cable exit top	<input type="checkbox"/> cable exit bottom
			

Cable cover					
Standard		Funnel			
<input type="checkbox"/> 0°	<input type="checkbox"/> 45°	<input type="checkbox"/> 0°	<input type="checkbox"/> 10°	<input type="checkbox"/> 15°	<input type="checkbox"/> 45°
					

Cable length			
<input type="checkbox"/> A = 200 mm	<input type="checkbox"/> A = 1000 mm	<input type="checkbox"/> A = 2000 mm	<input type="checkbox"/> _____ mm

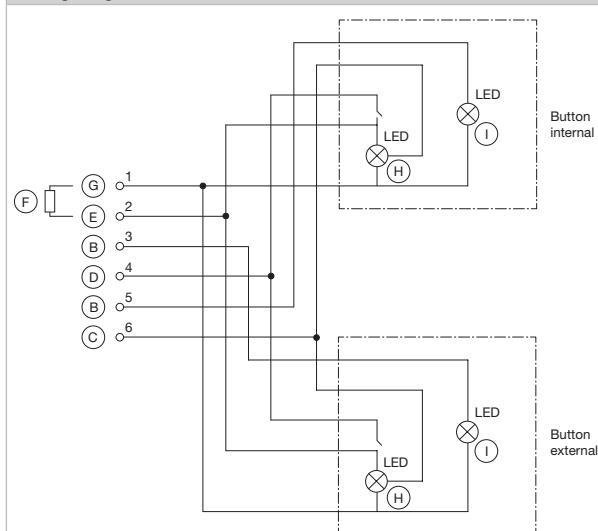
Cable and Connector type				
Cable	Connector	Connector pin assignment		
<input type="checkbox"/> 4 x 0.24 mm ²	<input type="checkbox"/> Core end-sleeves		<input type="checkbox"/> standard	<input type="checkbox"/> special
<input type="checkbox"/> 4 x 0.50 mm ²	<input type="checkbox"/> AMP MateNLok	Pin 1	1	—
<input type="checkbox"/> 6 x 0.24 mm ²	<input type="checkbox"/> WAGO X-COM 769	Pin 2	2	—
	<input type="checkbox"/> DEUTSCH connector	Pin 3	3	—
		Pin 4	4	—
		Pin 5	5	—
		Pin 6	6	—

57 Glass mounting

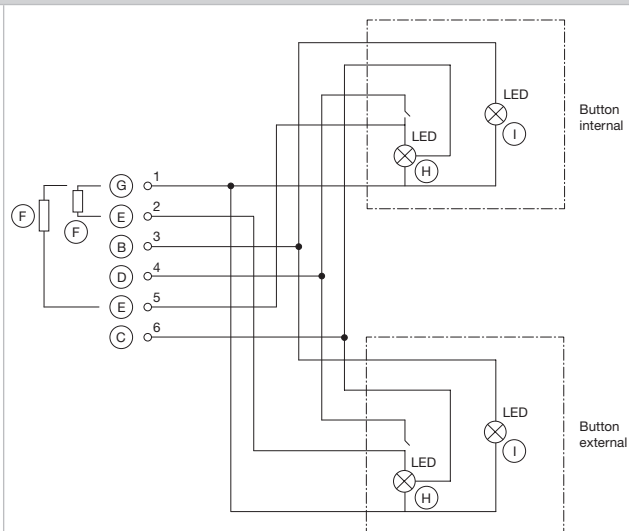
Wiring diagram select by function

Function	Cable	Wiring diagram
<input type="checkbox"/> Diagram six pole, switch parallel, LED outer ring separately, LED inner ring parallel, without finding tone	6 x 0.24 mm ²	1
<input type="checkbox"/> Diagram six pole, switch separately, LED inner ring / outer ring parallel, without finding tone	6 x 0.24 mm ²	2
<input type="checkbox"/> Diagram four pole, switch parallel, LED outer ring parallel, without finding tone	4 x 0.24 mm ² 4 x 0.50 mm ²	3
<input type="checkbox"/> Diagram six pole, switch parallel, LED inner ring / outer ring parallel, with finding tone	6 x 0.24 mm ²	4

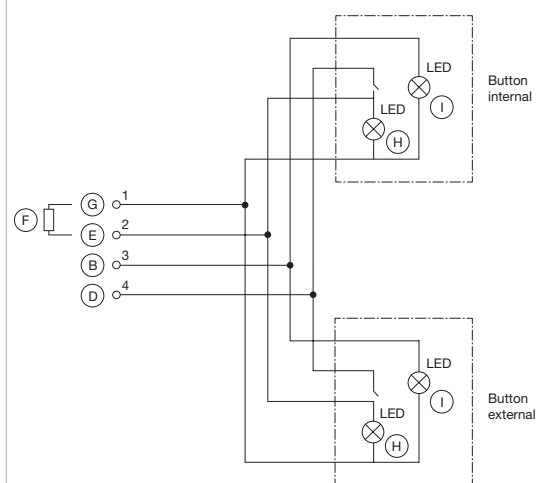
Wiring diagram



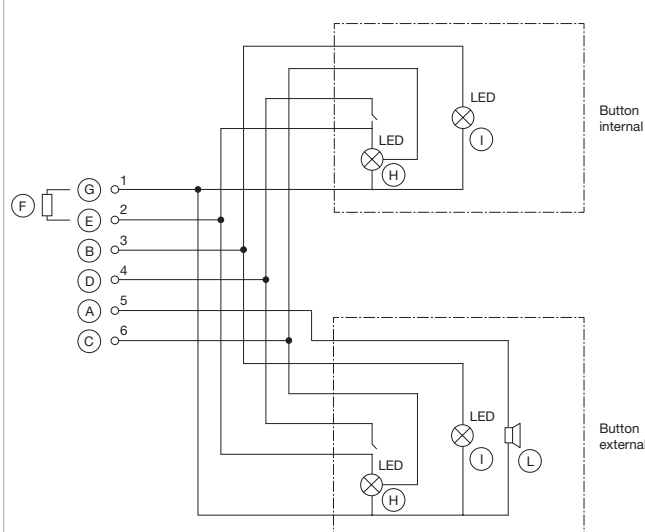
Wiring diagram 1



Wiring diagram 2



Wiring diagram 3




Wiring diagram 4

Legend

- A = VDC finding tone
- B = VDC outer ring/symbol
- C = VDC inner ring
- D = VDC
- E = Switch
- F = Load
- G = 0 V
- H = Inner ring
- I = Outer ring
- K = Symbol
- L = Finding tone



Mounting**Dismantling tool**

Part No.	Weight
	
	Dismantling tool to front bezel
57-9901	0.011 kg

Mounting plate

Dimension	Mounting cut-out	Material	Part No.	Weight
				
	Mounting plate			
Ø 88 mm	Ø 42.5 mm	Chromstahl	57-9905	0.066 kg

Mounting enclosure

Product	Dimension	Mounting cut-out	Material	Part No.	Weight
					
	Mounting enclosure flush version				
suitable for the most common in-wall flush boxes	100 x 100 mm	Ø 45 mm	Plastic black	57-9903	0.073 kg
					
	Mounting enclosure surface version				
for direct wall mounting, with cable relief, break-out cable entries	100 x 100 mm	Ø 45 mm	Plastic black	57-9904	0.118 kg

Single side pushbutton

Switching system

The Series 57 is equipped with an electronic high side switch, is short circuit proof and overload protected. In case of over current the switch opens automatically (protection against destruction).

Material

Connection cable

Halogen-free, flame retardant, cross-linked by e-beam irradiation
Polymer according to EN 50306-2

Front bezel

Polyamide (PA66-GF25)
Aluminium natural anodized

Housing

Polyamide (PA66-GF25)

Symbol insert

Polyamide (PA66-GF25)
Aluminium natural anodized

Lens/Symbols

Polyamide (PA12)

Mechanical characteristics

Terminals

AMP Mini Universal MateNLok
WAGO X-COM 769
DEUTSCH connector
Open ends with core end-sleeves

Wire cross-section

Wire 4-/6-poles 0.24 mm²
Wire 4-/6-poles 0.5 mm²

Cable length

200 mm, 1000 mm, 2000 mm

Fixing screws

Countersunk screws M4 x 10 mm

Tightening torque

max. 100 Ncm

Key (mounting and dismantling)

Hexagon socket wrench size 2.5 mm

Actuating force

max. 15 N

Actuating travel

~0.5 mm

Mechanical lifetime

2 million cycles of operation

Electrical characteristics

Illumination

Side-LED green for outer ring
Side-LED red for inner ring
Point-LED white for symbol illumination

Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination

Finding tone

Standard tone sequence tone 1: 500 Hz, Tone 2: 700 Hz
Sound pressure level: 65 dB (A) ±4 dB @ 10cm
(see graphic in «Application guidelines»)

Units compliant to

EN 60947-5-1
EN 50155
EN14752
EN 45545

EMC

EN 61000-6-2, EN 61000-6-3, EN 50121-3-2, ESD min. 20 kV

Cables according to

EN 50306-2; VDE 0260-306-2
EN 50306-4; VDE 0260-306-4
NFF 63808 / NFF 61030

Symbole and illumination

TSI PRM & ADA

Operating voltage

16 ... 63 VDC (min./max.)
50 ... 143 VDC (min./max.)

Switch rating

max. 250 mA

Standby current

16 ... 63 VDC without tone: < 2 mA @ 24 VDC
50 ... 143 VDC without tone: < 2 mA @ 110 VDC
16 ... 63 VDC with tone: < 10 mA @ 24 VDC
50 ... 143 VDC with tone: < 4 mA @ 110 VDC

Note: Only pin 1 (0 V) und pin 4 (VDC) connected

Electric strength

4000 VAC, 50 Hz, 1 min, between all terminals and mounting plate/front element

Environmental conditions

Storage temperature

–45 °C ... +90 °C

Operating temperature

–40 °C ... +85 °C

57 Technical data

Symbole and illumination

TSI PRM & ADA

Operating voltage

16 ... 63 VDC (min./max.)

Switch rating

max. 250 mA

Standby current

16 ... 63 VDC: < 2 mA @ 24 VDC

Note: Only pin 1 (0 V) und pin 4 (VDC) connected

Electric strength

4000 VAC, 50 Hz, 1 min, between all terminals and mounting plate/front element

Environmental conditions

Storage temperature

-45 °C ... +90 °C

Operating temperature

-40 °C ... +85 °C

Protection degree

Front side IP 69 K

Rear side IP 67

Impact resistance

IK07

Climate resistance

Damp heat, cyclic

48 hours, +25 °C/97 %, +55 °C/93 % relative humidity, as per EN IEC 60068-2-30

Damp heat, state

56 days, +40 °C/93 % relative humidity, as per EN IEC 60068-2-78

Salt spray 96 h (DIN EN 60068-2-11)

Rapid change of temperature

5 cycles, -45 °C ... +90 °C, as per EN IEC 60068-2-14

Shock resistance

50 g, pulse width 11 ms, 6 shocks/axis as per DIN EN 60068-2-27

Vibration resistance

Broad band noise as per EN 61373 class 1B

10 g from 10 Hz ... 500 Hz, as per DIN EN 60068-2-6

Approvals

Approbations

E1

EBC

NFF

Declaration of conformity

CE

TSI/PRM

Pushbutton Glas-mounting

Switching system

The Series 57 is equipped with an electronic high side switch, is short circuit proof and overload protected. In case of over current the switch opens automatically (protection against destruction).

Material

Connection cable

Halogen-free, flame retardant, cross-linked by e-beam irradiation
Polymer according to EN 50306-2

Front bezel

Polyamide (PA66-GF25)

Aluminium natural anodized

Housing

Polyamide (PA66-GF25)

Flange

Polyamide (PA66-GF25)

Symbol insert

Polyamide (PA66-GF25)

Aluminium natural anodized

Lens/Symbols

Polyamide (PA12)

Mechanical characteristics

Terminals

AMP Mini Universal MateNLok

WAGO X-COM 769

DEUTSCH connector

Open ends with core end-sleeves

Wire cross-section

Wire 4-/6-poles 0.24 mm²

Wire 4-/6-poles 0.5 mm²

Wire 6 x 0.5 mm² (single side pushbutton)

Cable length

200 mm, 1000 mm, 2000 mm

Fixing screws

Single side pushbutton: PT head screw Torx K30x20

Double side pushbutton: PT head screw Torx K30x10

The screws are included in delivery.