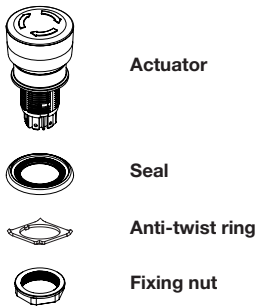


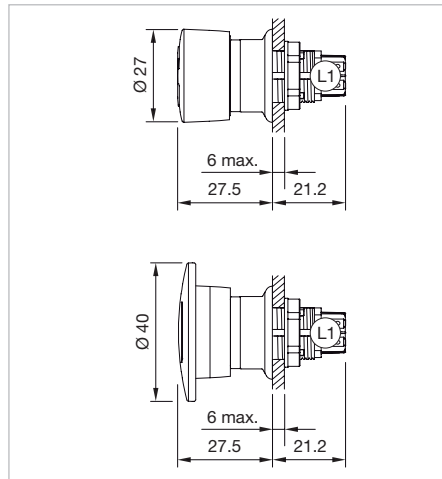
Emergency-stop switch compact, foolproof EN IEC 60947-5-5, IP67, IP69K

Equipment consisting of (schematic overview)

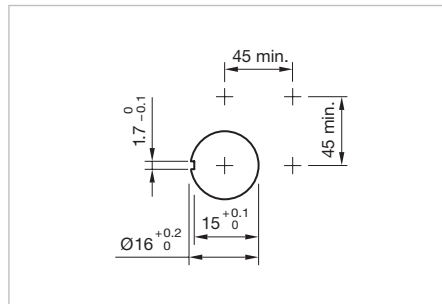


Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]
L1 = Solder/Plug-in terminal 2.8 x 0.5 mm





Mounting cut-outs [mm]




Product can differ from the current configuration.

Additional Information

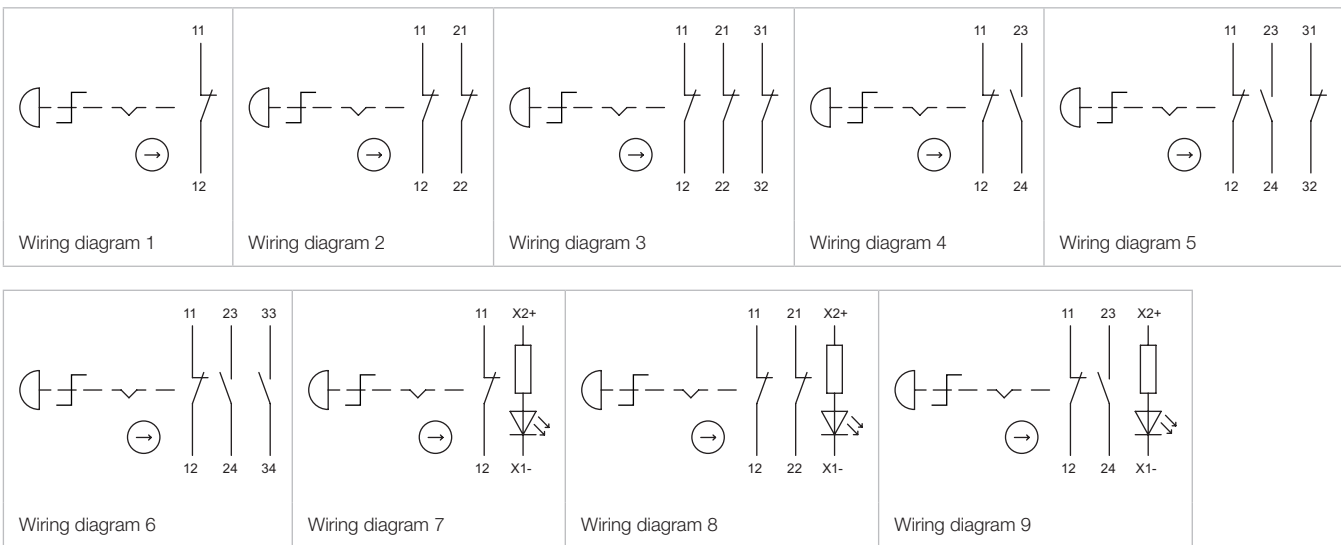
- Application as per DIN EN ISO 13850 and EN 60204-1
- Seal Part No. 61-9900
- Anti-twist ring No. 51-910
- Fixing nut No. 51-991
- Other accessories and spare parts see chapter «Accessories»

Product attribute	Marking	Contacts	Switching action	Terminal	Part No.	Component layout	Wiring diagram	Weight
 <p>Emergency-stop switch compact, foolproof EN IEC 60947-5-5, Front dimension Ø 27 mm</p>								
Twist to unlock clockwise, position indication ring green	Arrows	1 NC	C	Solder 2.8 x 0.5 mm	61-6441.4047	41	1	0.018 kg
	Arrows	2 NC	C	Solder 2.8 x 0.5 mm	61-6441.4057	42	2	0.018 kg
	Arrows	3 NC	C	Solder 2.8 x 0.5 mm	61-6441.4067	43	3	0.018 kg
	Arrows	1 NC + 1 NO	C	Solder 2.8 x 0.5 mm	61-6441.4077	44	4	0.018 kg
	Arrows	2 NC + 1 NO	C	Solder 2.8 x 0.5 mm	61-6441.4087	45	5	0.018 kg
	Arrows	1 NC + 2 NO	C	Solder 2.8 x 0.5 mm	61-6441.4097	46	6	0.018 kg
 <p>Emergency-stop switch compact, foolproof EN IEC 60947-5-5, Front dimension Ø 27 mm</p>								
Twist to unlock clockwise, position indication ring green	Arrows	1 NC	C	Solder 2.8 x 0.5 mm	61-6451.4247	47	7	0.018 kg
	Arrows	2 NC	C	Solder 2.8 x 0.5 mm	61-6451.4257	48	8	0.018 kg
	Arrows	1 NC + 1 NO	C	Solder 2.8 x 0.5 mm	61-6451.4277	49	9	0.018 kg

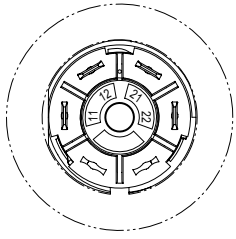
61 Raised design

Product attribute	Marking	Contacts	Switching action	Terminal	Part No.	Component layout	Wiring diagram	Weight
 <p>Emergency-stop switch compact, foolproof EN IEC 60947-5-5, Front dimension Ø 40 mm</p>								
Twist to unlock clockwise, position indication ring green	Arrows	1 NC	C	Solder 2.8 x 0.5 mm	61-6461.4047	41	1	0.018 kg
	Arrows	2 NC	C	Solder 2.8 x 0.5 mm	61-6461.4057	42	2	0.018 kg
	Arrows	3 NC	C	Solder 2.8 x 0.5 mm	61-6461.4067	43	3	0.018 kg
	Arrows	1 NC + 1 NO	C	Solder 2.8 x 0.5 mm	61-6461.4077	44	4	0.018 kg
	Arrows	2 NC + 1 NO	C	Solder 2.8 x 0.5 mm	61-6461.4087	45	5	0.018 kg
	Arrows	1 NC + 2 NO	C	Solder 2.8 x 0.5 mm	61-6461.4097	46	6	0.018 kg

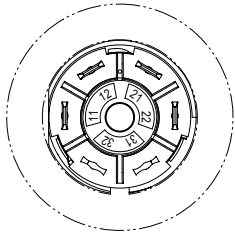
Switching action: C = Maintained
The component layouts you will find from page 90



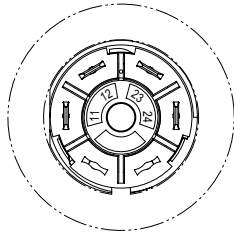
61 Drawings



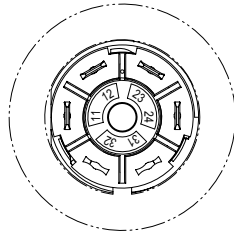
Component layout 41



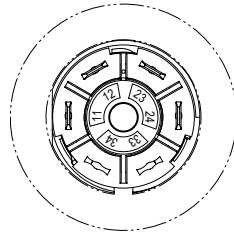
Component layout 42



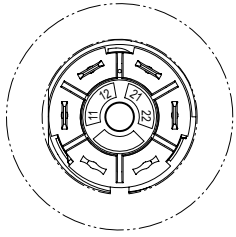
Component layout 43



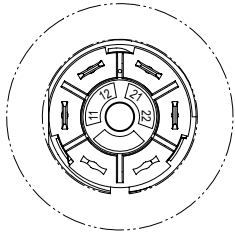
Component layout 44



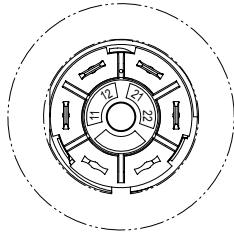
Component layout 45



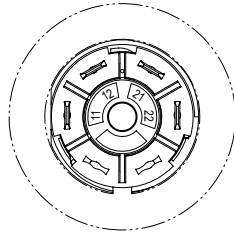
Component layout 46



Component layout 47



Component layout 48



Component layout 49

Emergency-stop switch compact, foolproof EN IEC 60947-5-5
Materials
Mushroom head lens

Plastic

Actuator housing material

Plastic

Contact material

Metal (Silver palladium)

Mechanical characteristics
Front plate thickness

1 ... < 4 mm with an anti-rotation ring
 Maximum 6 mm without an anti-rotation ring

Terminals

Plug-in terminals 2.8 mm x 0.5 mm
 (solderable, without UL certification)

Mounting cut-out

Ø 16.2 mm

Tightening torque

Max. 0.8 Nm

Actuation force

30 N ± 4 N

Actuating distance

4.2 mm

Mechanical life time

≥ 20 000 switching cycles

Electrical characteristics
Standards

EN 60947-5-1, EN 60947-5-5,
 DIN EN ISO 13850, EN IEC 60204

Illumination

LED red with reverse polarity protection, constant current source
 Operating voltage 6VDC ... 32VDC
 Current consumption 10 mA ... 12 mA

Rated operating voltage U_e

50 VAC/DC (EN IEC 60947-1)

Rated insulation voltage U^i

250 V (EN IEC 60947-1)

Rated impulse withstand voltage U_{imp}

0.5 kV (EN IEC 60947-1)

Contact resistance test

At 20 mV, 100 mA (IEC 60512-2-1)

61 Technical data

Insulation resistance

2 M Ω between the open contacts,
7 M Ω towards the panel (DIN IEC 60512-3-1)

Conventional therm. Current in free air I_{th}

0.5 A (EN IEC 60947-5-1 / maximum current in continuous operation at maximum +55 degrees C)

Rated short-circuit current caused

1000 A, type of short-circuit device 2 A gG
(EN 60947-5-1)

Breaking capacities

Alternating current usage category AC-15
(EN IEC 60947-5-1)

50 VAC

0.2 A

DC usage category DC-13 (EN IEC 60947-5-1)

50 VDC

0.2 A

Minimum operating data

Voltage 1 VAC/DC

Current 1 mA

Dielectric strength

500 VAC, 50 Hz, 1 min, (DIN IEC 60512-2)

Protective class

Class II (EN IEC 60947-5)

Overvoltage category

II (EN IEC 60947-1)

Degree of pollution

3 (EN IEC 60947-1)

Electrical life time

\geq 20000 switching cycles

Ambient conditions

Storage temperature

-40 °C ... +85 °C

Operating temperature

-25 °C ... +55 °C

Front protection

IP67, in accordance with EN IEC 60529/A1:2010-04

IP69K, in accordance with EN IEC 60529/A1:2010-04

Panel surface roughness Ra1.6

IK07 (Cover D27)

IK06 (Cover D40)

Resistance to shock

Max. 150 m/s², pulse width 11 ms, 3-axis

(half sinusoidal EN IEC 60068-2-27)

Vibration resistance

Max. 100 m/s² from 10 Hz ... 500 Hz, 20 cycles, 3-axis

(sinusoidal EN IEC 60068-2-6)

Environmental resistance

Humid heat, constant, 56 days, +40 °C / 93 % relative humidity (EN IEC 60068-2-78)

Dry heat, 96 hours, +55 °C (EN IEC 60068-2-2)

Cold, 96 hours, -25 °C (EN IEC 60068-2-1)

UV test, 56 days (EN 60068-2-5:1999)

Certificates

Approvals

UL NISD (cULus, UL EU) LISTED E-File no.: E341760

CB (EN 60947)

Declaration of Conformity

CE

EAO reserves the right to alter specifications without further notice.