Inscription	Symbol	Button plates for pushbutton actuators 18 x 18 mm **Part no.** Article no.	Button plates for pushbutton actuators 25 × 25 mm **Part no.** Article no.	**Price** See price list	Std. pack	**Information relevant for export to North America**
Marking plates						
–		**01TQ18** 086816	**01TQ25** 091121		20 off	UL/CSA certification not required
–		**02TQ18** 086859	**02TQ25** 091149			
–		**03TQ18** 087766	**03TQ25** 091184			
–		**04TQ18** 087834	**04TQ25** 091442			
–		**05TQ18** 087867	**05TQ25** 091471			
–		**06TQ18** 087920	**06TQ25** 091506			
With customized inscription via Labeleditor → Notes		**XQ18D-*-*[1)]** 285286	**XQ25D-*-*[1)]** 285287		1 off	
OFF		**10TQ18** 087951	**10TQ25** 091536		20 off	
STOP or OFF		**19TQ18** 054510	**19TQ25** 054508			
ON		**11TQ18** 088007	**11TQ25** 091562			
START or ON		**20TQ18** 054509	**20TQ25** 054507			
START or ON		**21TQ18** 088061	**21TQ25** 091586			
Direction of movement		**32TQ18** 088125	**32TQ25** 091618			
Direction of movement		**36TQ18** 088275	**36TQ25** 092592			
Electr. voltage		**34TQ18** 095386	**34TQ25** 092563			
Increase		**37TQ18** 088315	**37TQ25** 092608			
Decrease		**38TQ18** 088340	**38TQ25** 092645			
Manual actuation		**40TQ18** 088389	**40TQ25** 092709			
Automatic		**41TQ18** 088412	**41TQ25** 092774			
ON–OFF, momentary		**43TQ18** 088426	**43TQ25** 092791			
Unlock		**52TQ18** 088452	**52TQ25** 092825			
Lock		**53TQ18** 088487	**53TQ25** 092874			
Loosen		**54TQ18** 088512	**54TQ25** 093013			
Clamp		**55TQ18** 088545	**55TQ25** 093032			
Liquid START			**921TQ25** 047426			
Liquid STOP		**63TQ18** 088566	**63TQ25** 093060			
Horn		**66TQ18** 088590	**66TQ25** 093092			
Spindle START			**811TQ25** 053898			
Spindle STOP			**814TQ25** 047425			
ON–OFF, maintained		**899TQ18** 089232	**899TQ25** 093063			

Notes

[1)] When ordering, complete part no. XQ18D-*-* or XQ25D-*-*:
1st wildcard * ≙ Color, e.g.: -R, -G, -B, -W, -Y, -S
2nd wildcard * ≙ File name generated by Labeleditor → Engineering

Illuminated pushbutton actuator, Indicator light, laser inscription → Page 2/97

Inscription	Symbol	Button plates for pushbutton actuators 18 x 18 mm **Part no.** Article no.	25 × 25 mm **Part no.** Article no.	**Price** See price list	Std. pack	**Information relevant for export to North America**
Marking plates						
Direction of movement		**911TQ18** 089778	**911TQ25** 093100		20 off	UL/CSA certification not required
Direction of movement		**912TQ18** 090181	**912TQ25** 093135			
	0	**80TQ18** 088631	**80TQ25** 093134			
	1	**81TQ18** 088663	**81TQ25** 093158			
	2	**82TQ18** 088715	**82TQ25** 093178			
	3	**83TQ18** 088744	**83TQ25** 093197			
	4	**84TQ18** 088766	**84TQ25** 093224			
	5	**85TQ18** 088811	**85TQ25** 093241			
	6	**86TQ18** 089069	**86TQ25** 093257			
	7	**87TQ18** 089107	**87TQ25** 093288			
	8	**88TQ18** 089165	**88TQ25** 093305			
	9	**89TQ18** 089205	**89TQ25** 093329			
STOP			**110TQ25** 093363			
STOP			**112TQ25** 063748			
ARRET			**310TQ25** 091446			
START			**111TQ25** 093399			
START			**122TQ25** 063746			
MARCHE			**311TQ25** 091475			
AUS			**117TQ25** 093434			
AUS			**113TQ25** 063749			
OFF			**217TQ25** 090911			
ARRET			**317TQ25** 091508			
EIN			**121TQ25** 093461			
EIN			**123TQ25** 063747			
ON			**221TQ25** 090934			
MARCHE			**321TQ25** 091563			

Notes Illuminated pushbutton actuators, Indicator lights, Laser inscription → Page 2/97

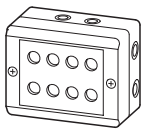
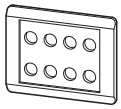
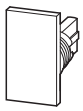
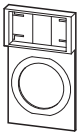
Inscription	Symbol	Button plates for pushbutton actuators 25 × 25 mm **Part no.** Article no.	**Price** See price list	Std. pack	**Information relevant for export to North America**
Marking plates					
LINKS		**134TQ25** 093494		20 off	UL/CSA certification not required
LEFT		**234TQ25** 090987			
GAUCHE		**334TQ25** 092567			
RECHTS		**135TQ25** 093527			
RIGHT		**235TQ25** 091009			
DROITE		**335TQ25** 092594			
ZU		**153TQ25** 090632			
CLOSE		**253TQ25** 091089			
FERME		**353TQ25** 092609			
AUF		**172TQ25** 090732			
UP		**272TQ25** 091124			
MONTEE		**372TQ25** 092711			
AB		**173TQ25** 090822			
DOWN		**273TQ25** 091152			
DESCENTE		**373TQ25** 092775			
RESET		**287TQ25** 091185			
VOR		**190TQ25** 090852			
ZURÜCK		**191TQ25** 090866			

Notes Illuminated pushbutton actuators, Indicator lights, Laser inscription → Page 2/97

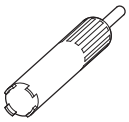
Inscription		Label mounts Q25T... with insert label Part no. Article no.	Price See price list	Insert labels for Q25T...-X label mount Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
Blank, black, can be engraved		**Q25TS-01** 046184		**01SQ25** 037986		20 off	UL/CSA certification not required
Blank, aluminum-colored, can be engraved		**Q25TS-02** 046185		**02SQ25** 038074			
Blank, yellow, not for engraving		**Q25TGE-05** 063259		**05SQ25** 063201			
AUS		**Q25TS-117** 046194					
EIN		**Q25TS-121** 046196					
ON		**Q25TS-221** 046197					
STOP		**Q25TS-110** 046190		**110SQ25** 038507			
START		**Q25TS-111** 046192					
Störung		**Q25TS-150** 046198					
FAULT		**Q25TS-250** 046199					
DÉFAUT		**Q25TS-386** 072306		**386SQ25** 072302			
Betrieb		**Q25TS-183** 046201					
EN SERVICE		**Q25TS-383** 046204					
HAND 0 AUTO		**Q25TS-197** 072305					
MAN. 0 AUTO		**Q25TS-397** 072307					
NOT-AUS		**Q25TGE-199** 063260		**199SQ25** 063200			
EMERGENCY STOP		**Q25TGE-299** 063261		**299SQ25** 063199			
RUN				**283SQ25** 038767			
EN SERVICE				**383SQ25** 038771			
ARRET D'URGENCE				**399SQ25** 048638			
–	0	**Q25TS-10** 046186		**10SQ25** 038268			
–	I	**Q25TS-11** 046187					
–	→	**Q25TS-32** 046188					
–	0 I	**Q25TS-90** 046189		**90SQ25** 038271			
–	I 0 II	**Q25TS-93** 072304		**93SQ25** 072300			
With customized inscription through Labeleditor → Notes	–	**XQ25TS-*-*** 109773				1 off	UL/CSA certification not required

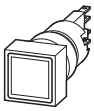
Notes

When ordering, complete part no. XQ25TS-*-*:
1st wildcard * ≙ Color: AL = aluminum, B = black, Y = yellow
2nd wildcard * ≙ File extension

	Color	RAL value	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
Surface mounting enclosures, IP65[1)]						
For conventional wiring or for mounting ILP1 printed circuit boards With plastic cover fixing screws Enclosure base: black (RAL 9005) 8 mounting locations Knockout cable entries Bottom: 4 × M20 Sides: 7 × M20						
		RAL 7035	**I8** 046299		2 off	Product Standards: IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No.: E29184 UL CCN: NKCR CSA File No.: 46552 CSA Class No.: 3211-03 NA Certification: UL Listed, CSA certified Degree of Protection: UL/CSA Type 1
Flush mounting plate, IP65[1)]						
For conventional wiring or for mounting ELP 1 printed circuit boards 8 mounting locations						
		RAL 7035	**E8** 054423		1 off	Product Standards: IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No.: E29184 UL CCN: NKCR CSA File No.: 46552 CSA Class No.: 3211-03 NA Certification: UL Listed, CSA certified Degree of Protection: UL/CSA Type 1
		RAL 9005	**E8-SW** 065212		1 off	
Customized complete unit						
To order use form FO315 → Data sheet in Online Catalog * = Freely selectable customer identification or stock no.; max. 10 characters.						
–	–	Configurable	**M16-COMBINATION-*** 232189		1 off	
Blanking plates, IP65						
For closing off of spare mounting locations in surface mounting enclosures or flush mounting panels in grid dimension 25 × 37.5 mm						
		RAL 9005	**Q25AS** 036602		10 off	UL/CSA certification not required
		RAL 7035	**Q25AGR** 048641			
		RAL 1004	**Q25AGE** 048640			
Label mounts without insert label						
For additional marking of mounting locations in surface mounting enclosures or flush mounting panels in grid dimension 25 × 37.5 mm Suitable insert labels → 2/94						
		RAL 9005	**Q25TS-X** 036601		20 off	UL/CSA certification not required
		RAL 7035	**Q25TGR-X** 063257			
		RAL 1004	**Q25TGE-X** 063258			

Notes Unused mounting locations must be closed off with blanking plates.
Each used mounting location must be fitted with a label mount.

	Model	Durability EN 60064 at t_a = +25 °C $t_{average}$ (AC) h	Color	**Part no.** Article no.	**Price** See price list	Std. pack	**Information relevant for export to North America**
Filament lamp W 2 × 4.6 d							
	6 V/1.0 W	10000	–	**WBGL6** 090223		50 off	UL/CSA certification not required
	12 V/1.0 W	15000	–	**WBGL12** 089968		50 off	
	24 - 28 V/1.0 W	7000	–	**WBGL24** 089247		100 off	
Multiple LEDs W 2 × 4.6 d							
For AC/DC 	6 V/45 mA	60000		**WBLED-GE6** 055711		10 off	UL/CSA certification not required
				WBLED-GN6 055712			
				WBLED-RT6 055713			
	12 V/24 mA	60000		**WBLED-GE12** 055714			
				WBLED-GN12 055715			
				WBLED-RT12 055716			
Single-chip LED W 2 × 4.6 d							
Positive pole to X1, Integral suppressor circuit up to 1000 V 	18 - 30 V DC/7 - 12.5 mA	100000		**LEDWB-Y** 208724		10 off	UL/CSA certification not required
				LEDWB-G 208725			
				LEDWB-R 208726			
				LEDWB-W 208728			
				LEDWB-B 208727			
Combination box spanner							
For lock nut with bulb extractor 	–	–	–	**R16-MS** 090297		10 off	UL/CSA certification not required
Insulated ferrule							
For fast-on connector 2.8 × 0.8 mm, connected from front U_e > 50 V AC, U_e > 120 V DC 	–	–	–	**ISH2,8** 090267		100 off	UL/CSA certification not required
Flat pin bushing							
2.8 × 0.8 mm for conductor cross-section 0.5 - 1 mm² 	–	–	–	**LT306.022.3** 058863		100 off	UL/CSA certification not required
Blanking plugs, IP65							
For closing off of spare mounting locations 	For grid dimension 18 × 18 mm	–		**Q18BS** 037985		10 off	UL/CSA certification not required
	For grid dimension 25 × 25 mm	–		**Q25BS** 036976		10 off	
Anti-rotation feature							
Guard-ring as anti-rotation feature for all RMQ16 pushbutton 	–	–	–	**VS** 046301		50 off	UL/CSA certification not required

	For use with	Color	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
IP20, screw adapter						
Conductor cross-sections 1 × 1.5 mm², 2 × 0.75 mm²						
	For NC		**SRA01** 028101		20 off	UL/CSA certification not required
	For N/O		**SRA10** 028100			
	For lamp socket		**SRAL** 028099			
Individual keys						
Standard lock mechanism, black, each colour corresponds to a specific lock mechanism						
	–		**ES16** 065190		10 off	UL/CSA certification not required
	–		**ES16-GN** 030742		5 off	
	–		**ES16-RT** 030741			
	–		**ES16-WS** 030743			
	–		**ES16-BL** 030744			
Transparent insert plates						
For better light diffusion						
–	For grid dimension 18 × 18 mm		**01LQ18** 090231		20 off	UL/CSA certification not required
–	For grid dimension 25 × 25 mm		**01LQ25** 093180			
Lenses for illuminated pushbutton actuators						
With customized inscription to order via Labeleditor → Notes						
	For grid dimension 18 × 18 mm	–	**XQ18LT-*-*** 285288		1 off	UL/CSA certification not required
	For grid dimension 25 × 25 mm	–	**XQ25LT-*-*** 285289			
Lenses for indicator lights, flush						
With customized inscription to order via Labeleditor → Notes						
–	For grid dimension 18 × 18 mm	–	**XQ18LF-*-*** 285310		1 off	UL/CSA certification not required
–	For grid dimension 25 × 25 mm	–	**XQ25LF-*-*** 285311			
Insert labels for label mounts						
For laser inscription with Labeleditor → Notes						
–	For Q25TS-...	–	**XQ25TS-*-*** 109773		1 off	

Notes

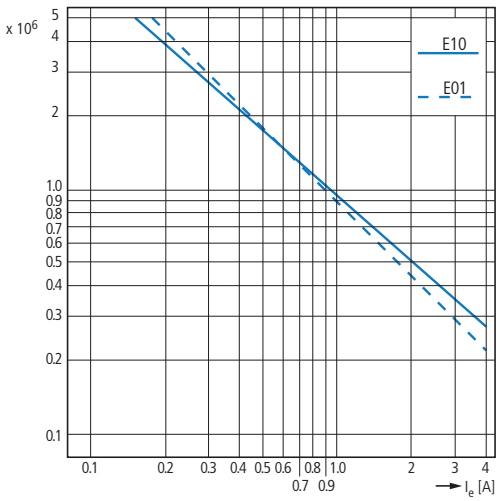
When ordering, complete part no. XQ...-*-*:
1st wildcard * ≙ Color, e.g.: -R, -G, -B, -W, -Y, -S
2nd wildcard * ≙ file name generated by Labeleditor → Engineering

Technical data

				Contact elements	Illuminated pushbuttons (maintained)	Illuminated selector pushbuttons	Indicator lights
General							
Standards				IEC/EN 60947, VDE 0660			
Lifespan, mechanical		Operations	x 10^6	> 100	> 30	> 3	–
Operating frequency		Operations/h		≦ 3600	≦ 1800	≦ 1800	–
Actuating force			N	3	4	–	–
Operating torque			Nm	–	–	≦ 0.2	–
Protection type, IEC/EN 60529				IP20 with ISH2.8	IP65	IP65	IP65
Climatic proofing				Damp heat, constant as per IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30			
Ambient temperature							
Open			°C	-25 - +60	-25 - +60	-25 - +60	-25 - +60
Encapsulated			°C	-25 - +40	-25 - +40	-25 - +40	-25 - +40
Mounting position				Any	Any	Any	Any
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal			g	> 40	> 40	> 40	> 40
Terminal capacity			mm^2	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0
Blade terminal				2.8 × 0.8 mm to DIN 46244			
Flat pin bushing				2.8 × 0.8 mm to DIN 46247 and IEC 60760			
Contacts							
Rated impulse withstand voltage		U_{imp}	V AC	4000	800	800	800
Rated insulation voltage		U_i	V	250	250	250	250
Overvoltage category/pollution degree				III/3	III/3	III/3	III/3
Rated operational voltage		U_e	V AC	250	24	24	24
Control circuit reliability							
At 24 V DC/5 mA		H_F	Fault probability	< 10^{-7} (i.e. 1 failure to 10^7operations)			–
At 5 V DC/1 mA		H_F	Fault probability	< 5 × 10^{-6} (i.e. 1 failure to 5 × 10^6operations)			–
Use of ISH insulated ferrule 2.8				On >24 V AC/DC recommended On >50 V AC or 120 V DC mandatory, also on unoccupied blade terminals			
Max. short-circuit protective device							
Fuseless			Part no.	FAZ-B6/1	–	–	–
Fuse		gG/gL	A	10	–	–	–
Switching capacity							
Rated operation current							
AC-15							
	24 V	I_e	A	4	–	–	–
	48 V	I_e	A	4	–	–	–
	110 V	I_e	A	4	–	–	–
	230 V	I_e	A	4	–	–	–
DC-13							
	24 V	I_e	A	3	–	–	–
	42 V	I_e	A	1	–	–	–
	60 V	I_e	A	0.8	–	–	–
	110 V	I_e	A	0.5	–	–	–
	220 V	I_e	A	0.2	–	–	–

HPL02099EN

			Pushbutton actuators (maintained)	Selector switch actuators	Key-operated pushbutton actuators	Emergency switching-off pushbutton actuatorss
General						
Standards			IEC/EN 60947, VDE 0660	IEC/EN 60947, VDE 0660	IEC/EN 60947, VDE 0660	IEC/EN 60947, VDE 0660
Lifespan, mechanical	Operations	x 10^6	> 3	> 3	> 3	> 0.1
Operating frequency	Operations/h		≦ 1800	≦ 1800	≦ 1800	≦ 600
Actuating force		N	4	–	–	25
Operating torque		Nm	–	0.2	0.4	–
Protection type, IEC/EN 60529			IP65	IP65	IP65	IP65
Climatic proofing			Damp heat, constant as per IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30			
Ambient temperature						
Open		°C	-25 - +60	-25 - +60	-25 - +60	-25 - +60
Encapsulated		°C	-25 - +40	-25 - +40	-25 - +40	-25 - +40
Mounting position			Any	Any	Any	Any
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal		g	> 40	> 40	> 40	> 40
Terminal capacity		mm^2	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0
Blade terminal			2.8 × 0.8 mm to DIN 46244			
Flat pin bushing			2.8 × 0.8 mm to DIN 46247 and IEC 60760			

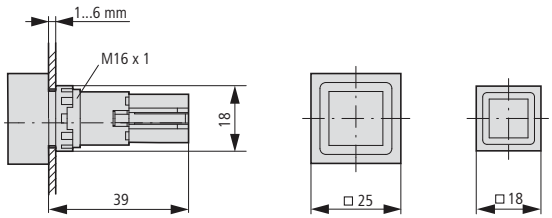


Durability, electrical AC-15 to IEC/EN 60947-5-1 at 230 V
I_e = rated operational current

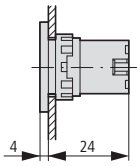
Dimensions

Actuating and indicator elements

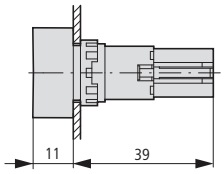
Square style



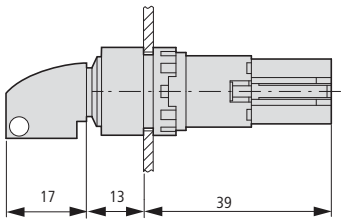
Q...BS



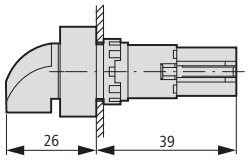
Q...D-...
Q...DR-...



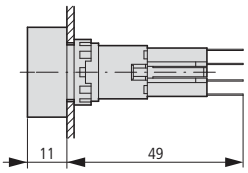
Q...S...



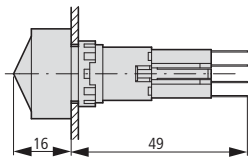
Q...WK...



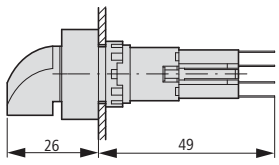
Q...LT-...
Q...LTR-...
Q...LF-...



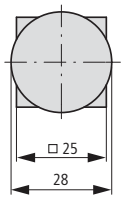
Q...LH-...

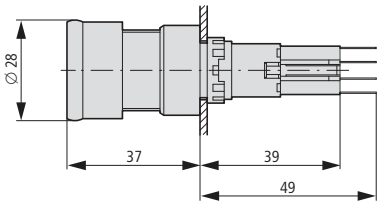


Q...LWK...



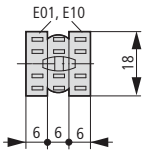
Q25PV...
Q25LPV...

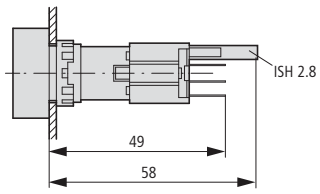




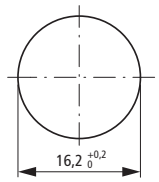
Front fixing

Q18, Q25, E89, SRA, VS, M16



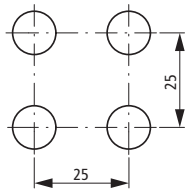


Drilling dimensions



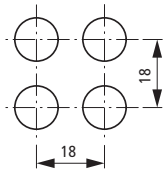
Grid dimension to IEC/EN 60947

Q25

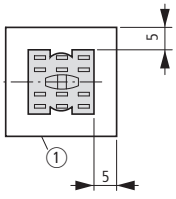


Minimum grid spacing dimension

Q18



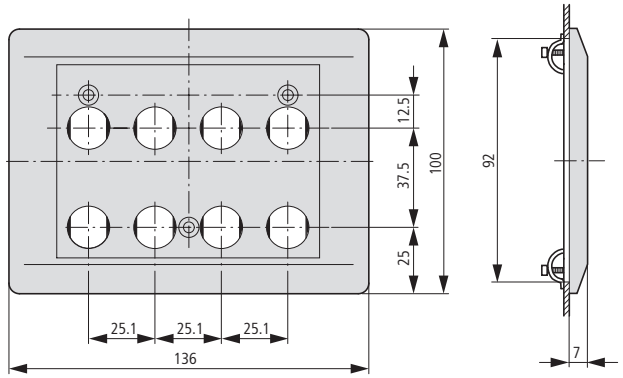
Mounting distance



① Exposed conductive part (metal)

Flush mounting panel

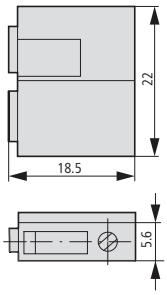
E8...



Size of cutout: 92 × 94

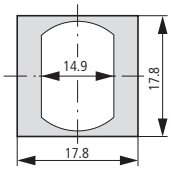
RMQ16 screw adapter

SRA...



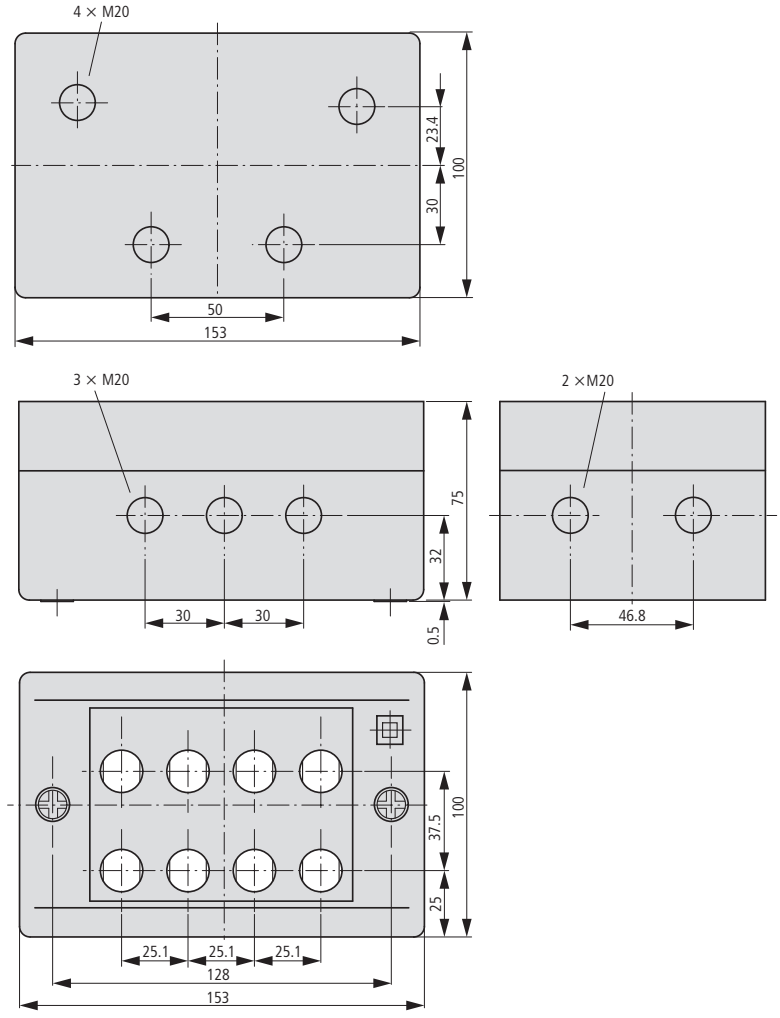
Anti-rotation feature

VS



RMQ16 housing extension

I8...

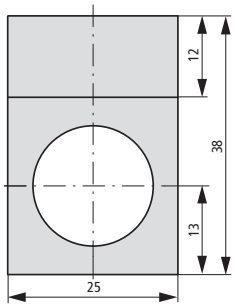


Fixing hole: 2 x ∅ 4.5 mm

Distance: 128 mm

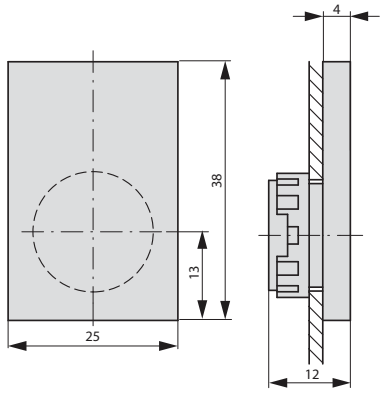
RMQ16 label mount

Q25TS-...

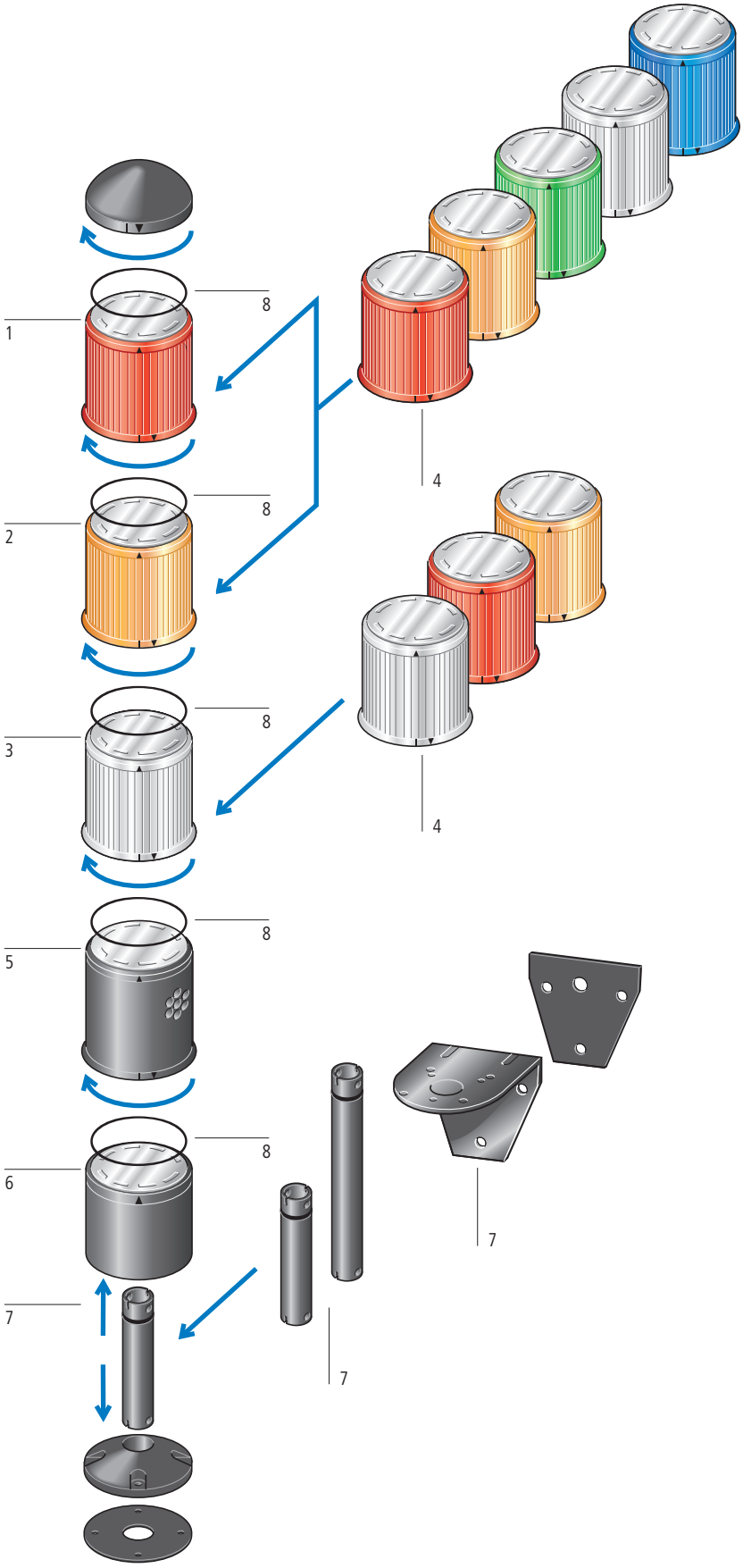


Blanking plates

Q25AS



System overview



Continuous light	1
Easy mounting with bayonet fitting	
Modules can be arranged in any order	
Protection type IP54	
Up to five levels can be actuated independently	
Operating mode: 100 % DF	
Without light elements	
→ Page 2/104	

Flashing light	2
Easy mounting with bayonet fitting	
Modules can be arranged in any order	
Protection type IP54	
Up to five levels can be actuated independently	
Operating mode: 100 % DF	
With filament bulb	
Flashing frequency: approx. 1 Hz	
→ Page 2/105	

Strobe light	3
Easy mounting with bayonet fitting	
Modules can be arranged in any order	
Protection type IP54	
Up to five levels can be actuated independently	
Operating mode: 100 % DF	
Flash power 1 Ws	
Flashing frequency: approx. 1 Hz	
→ Page 2/106	

Caps	4
Color: red, yellow, green, white, blue	
Fresnel grooves ensure even light distribution	

Acoustic device	5
Easy mounting with bayonet fitting	
Modules can be arranged in any order	
Protection type IP20	
Operating mode: 100 % DF	
Continuous tone or pulsed tone	
Sound pressure: about 90 dB at 60 cm	
Frequency: 2750 Hz	
→ Page 2/105	

Base module	6
Easy mounting with bayonet fitting	
Protection type IP54	
For bottom mounting or in tubular column	
Terminal connection capacity 6 × 1.5 mm²	
With top cover	
→ Page 2/104	

Accessories	7
Spacer available in four lengths Filament bulbs, LEDs 90° wall mounting with commercial four-hole fixing	
→ Page 2/107	

Gaskets	8
For increasing the degree of protection type to IP65	
→ Page 2/107	

Product feature of SL

- Individual programming by jumper: max. 5 modules and base module
- Customized combinations → Page 2/104

