

Data Sheet

652.D.101.10

LED Switch Position Indicators and LED Lights

SUS-01

SUS-02

SUS-95

SUS-99

SUS-48

CSL-99



Application

Switch position indicators and lights are used to indicate the switching state in electrical installations.

The **SUS-01/02/48/95/99/99-GS** switch position indicators and the **CSL-99** lights are equipped with LEDs in various colors. They can be used for operation in mimic circuit diagrams of switch gears as well as in measuring and control panels.

Type	Round	Square	LED Test	Bar LEDs	Front size
SUS-01	*	Q	T	—	25 mm
SUS-02	*	Q	T	—	20 mm
SUS-95	*	Q	—	L	39 mm
SUS-99	*	Q	—	L	32 mm
SUS-99-GS	*	—	—	—	30 mm
SUS-48	*	Q	—	—	48 mm
CSL-99	*	—	—	—	28 mm

Functional Principle

Colored LEDs are energized by various terminals.

Mechanical Data

connection	SUS-01/02/95/99	SUS-48/48Q	SUS ... T
	CSL-99		connector blades
	max. 1.5 mm ²	max. 2.5 mm ²	2.8x0.8x7.0
enclosure code	SUS/CSL ...	SUS-48/48Q	SUS ... T
case	IP 65	IP 54	IP 54
terminals	IP 20	IP 20	
mounting hole	SUS-01/48/95/99, CSL-99	SUS-02	
	ø 22 mm	ø 16 mm	
hole distance	SUS-01	SUS-02	SUS-95
min.	30 mm	25 mm	40 mm
panel thickness	SUS ...	SUS-48/48Q/CSL-99	
max.	12 mm	10 mm	

Electrical Data

SUS/CSL ...

Rated voltage	AC	DC	Suppression of inductive surge voltages (optional)
12 V	x	x	—
24 V	x	x	—
48 V	x	x	—
60 V	x	x	up to 30 V
110 V	x	x	up to 30 V or up to 60 V
125 V	x	x	up to 30 V or up to 60 V
220 V	—	x	up to 30 V
230 V	x	—	up to 30 V (standard), up to 60 V, or up to 120 V
other voltages on request			
rated current	max. 20 mA each input		

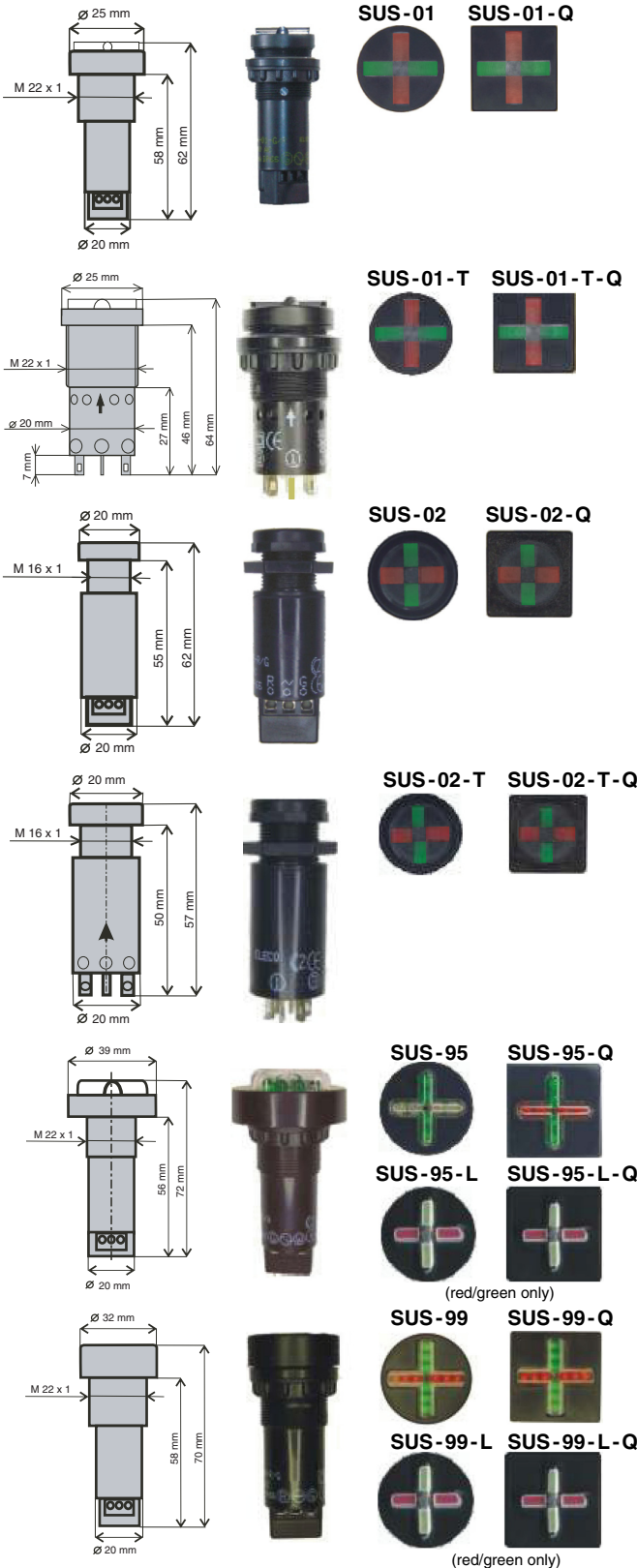
SUS-48/48Q

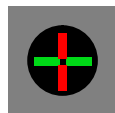
Rated voltage/	24 V AC/DC, 15 ... 20 mA
current consumption	48 V AC/DC, 15 ... 20 mA
each input	130 V AC/DC (110 ... 130 V), 15 ... 20 mA
	220 V DC, 9 mA
	240 V AC, 15 mA

Indication

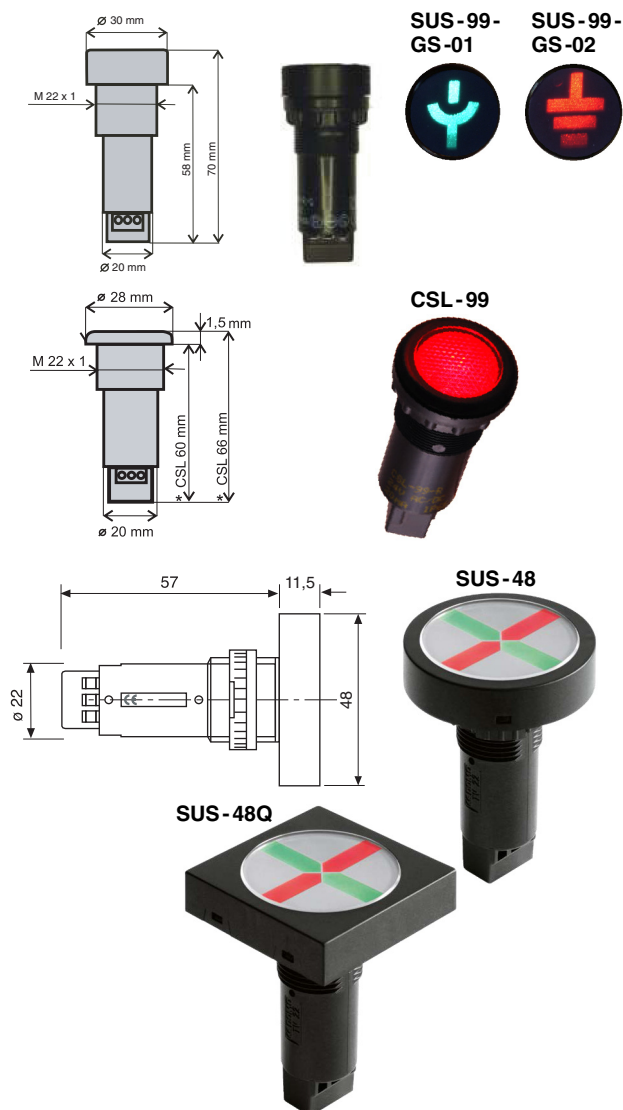
Illumination colors	single color or combinations of red, green, blue, white, yellow, orange
illumination strength	depends on the LEDs used
life time	min. 100,000 hours

Models/Dimensions





LED Switch Position Indicators and LED Lights



Environmental

working temperature	SUS/CSL ... -25 ... +60° C	SUS-48/48Q -20 ... +60° C
---------------------	--------------------------------------	-------------------------------------

Rules and Standards

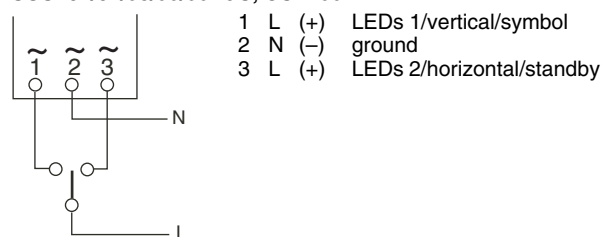
EN 61 010-1	Safety requirements for electrical measuring, control and laboratory equipment – Part 1: General requirements
EN 60598-1	Luminaires – Part 1: General requirements and tests
EN 60598-2-2	Luminaires – Part 2-2: Particular requirements – Recessed luminaires

Options

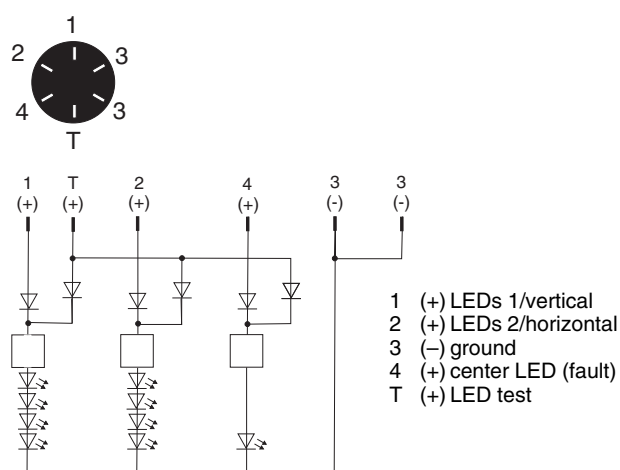
flashing LEDs

Terminals/Connections

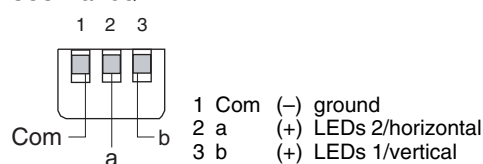
SUS-01/02/95/99/99-GS, CSL-99



SUS-01/02-T



SUS-48/48Q



Ordering Information

Type	LED Switch Position Indicator				
SUS-01	round, ø 25 mm				
SUS-01-Q	square, 25 mm x 25 mm				
SUS-01-T	round, ø 25 mm, with LED test				
SUS-01-T-Q	square, 25 mm x 25 mm, with LED test				
SUS-02	round, ø 20 mm				
SUS-02-Q	square, 20 mm x 20 mm				
SUS-02-T	round, ø 20 mm, with LED test				
SUS-02-T-Q	square, 20 mm x 20 mm, with LED test				
SUS-95	round, ø 39 mm				
SUS-95-Q	square, 39 mm x 39 mm				
SUS-95-L	round, ø 39 mm, with bar LEDs				
SUS-95-L-Q	square, 39 mm x 39 mm, with bar LEDs				
SUS-99	round, ø 32 mm				
SUS-99-Q	square, 32 mm x 32 mm				
SUS-99-L	round, ø 32 mm, with bar LEDs				
SUS-99-L-Q	square, 32 mm x 32 mm, with bar LEDs				
SUS-99-GS-01	round, ø 30 mm, with interruption symbol; optional standby LED				
SUS-99-GS-02	round, ø 30 mm, with grounding symbol; optional standby LED				
SUS-48	round, ø 48 mm				
SUS-48-Q	square, 48 mm x 48 mm				
CSL-99	round, ø 28 mm				
LEDs1/vertical ¹⁾ / LEDs2/horizontal ¹⁾ / Center LED ²⁾					
R	red	R	red	R	red
G	green	G	green	G	green
B	blue	B	blue	B	blue
W	white	W	white	W	white
Y	yellow	Y	yellow	Y	yellow
O	orange	O	orange	O	orange
xF	flashing ³⁾	xF	flashing ³⁾	–	
Voltage	Voltage type		Suppression of inductive surge voltages		
SUS/CSL ...			min.	max.	
12	12 V	AC or DC	–	–	
24	24 V	AC or DC	–	–	
48	48 V	AC or DC	–	–	
60	60 V	AC or DC	–	P30	up to 30 V
110	110 V	AC or DC	P30	P60	up to 60 V
125	125 V	AC or DC	P30	P60	up to 60 V
220	220 V	DC only	P30		up to 30 V
230	230 V	AC only	P30 ⁴⁾	P120	up to 120 V
xx	other voltage on request				
Voltage	Voltage type				
SUS-48/48Q					
24	24 V	AC or DC			
48	48 V	AC or DC			
130	130 V	AC or DC			
220	220 V	DC only			
240	240 V	AC only			
xx	other voltage on request				

Ordering example

SUS-02-T-Q-R/G-230 AC P60

LED switch position indicator, square, 20 mm x 20 mm,
with LED test, red/green, 230 V AC,
with suppression of inductive surge voltages up to 60 V

SUS-01-RF/G-230AC LED switch position indicator, round, ø 25 mm,
red flashing/green, 230 V AC

¹⁾ for **SUS-95/99-L** only red and/or green, **SUS-48/48Q** green/red only

²⁾ **SUS-01/02-T** only

³⁾ optional, not for **SUS-01/02-T**

⁴⁾ standard with voltage 230 V AC

Weigel Meßgeräte GmbH

Postfach 720 154 • 90241 Nürnberg • Phone: 0911/42347-0
Erlenstraße 14 • 90441 Nürnberg • Fax: 0911/42347-39
Sales: Phone: 0911/42347-94
Internet: <http://www.weigel-messgeraete.de>
e-mail: vertrieb@weigel-messgeraete.de

– specifications subject to change without notice; date of issue 11/20 –

