

Pilot lights



CL2-506R

CL2-506G



CL2-506Y

CL2-506L



CL2-506C

Description	Rated current mA	Anti-inductive Voltage (Vpeak)	Wavelength nm	Illumination lx	Type	Order code	Pkg qty	Weight (1pce) Kg
Rated voltage 6,3 V DC								
● Red	16	2	625	70	CL2-506R	1SFA619403R5061	10	0,0185
● Green	16	2	520	125	CL2-506G	1SFA619403R5062	10	0,0185
● Yellow	16	2	590	75	CL2-506Y	1SFA619403R5063	10	0,0185
● Blue	16	2	470	10	CL2-506L	1SFA619403R5064	10	0,0185
○ Clear	16	2	(X=0.31,Y=0.32)	290	CL2-506C	1SFA619403R5068	10	0,0185
Rated voltage 12 V DC								
● Red	16	2	625	110	CL2-501R	1SFA619403R5011	10	0,0185
● Green	16	2.5	520	165	CL2-501G	1SFA619403R5012	10	0,0185
● Yellow	16	2.5	590	85	CL2-501Y	1SFA619403R5013	10	0,0185
● Blue	16	2.5	470	15	CL2-501L	1SFA619403R5014	10	0,0185
○ Clear	16	2.5	(X=0.31,Y=0.32)	320	CL2-501C	1SFA619403R5018	10	0,0185
Rated voltage 24 V AC/DC								
● Red	16	6	625	80	CL2-502R	1SFA619403R5021	10	0,0185
● Green	16	6	520	135	CL2-502G	1SFA619403R5022	10	0,0185
● Yellow	16	6	590	55	CL2-502Y	1SFA619403R5023	10	0,0185
● Blue	16	6	470	10	CL2-502L	1SFA619403R5024	10	0,0185
○ Clear	16	6	(X=0.31,Y=0.32)	230	CL2-502C	1SFA619403R5028	10	0,0185
Rated voltage 48-60 V AC/DC								
● Red	13-17	7	625	75	CL2-507R	1SFA619403R5071	10	0,0185
● Green	13-17	7	520	140	CL2-507G	1SFA619403R5072	10	0,0185
● Yellow	13-17	7	590	80	CL2-507Y	1SFA619403R5073	10	0,0185
● Blue	13-17	7	470	10	CL2-507L	1SFA619403R5074	10	0,0185
○ Clear	13-17	7	(X=0.31,Y=0.32)	260	CL2-507C	1SFA619403R5078	10	0,0185
Rated voltage 110-130 V AC								
● Red	15-17	20	625	85	CL2-513R	1SFA619403R5131	10	0,0185
● Green	15-17	20	520	90	CL2-513G	1SFA619403R5132	10	0,0185
● Yellow	15-17	20	590	85	CL2-513Y	1SFA619403R5133	10	0,0185
● Blue	15-17	20	470	10	CL2-513L	1SFA619403R5134	10	0,0185
○ Clear	15-17	20	(X=0.31,Y=0.32)	340	CL2-513C	1SFA619403R5138	10	0,0185
Rated voltage 110-130 V DC								
● Red	8-9	20	625	55	CL2-515R	1SFA619403R5151	10	0,0185
● Green	8-9	20	520	125	CL2-515G	1SFA619403R5152	10	0,0185
● Yellow	8-9	20	590	50	CL2-515Y	1SFA619403R5153	10	0,0185
● Blue	8-9	20	470	10	CL2-515L	1SFA619403R5154	10	0,0185
○ Clear	8-9	20	(X=0.31,Y=0.32)	210	CL2-515C	1SFA619403R5158	10	0,0185
Rated voltage 220 V DC								
● Red	6	20	625	40	CL2-520R	1SFA619403R5201	10	0,0185
● Green	6	20	520	90	CL2-520G	1SFA619403R5202	10	0,0185
● Yellow	6	20	590	30	CL2-520Y	1SFA619403R5203	10	0,0185
● Blue	6	20	470	5	CL2-520L	1SFA619403R5204	10	0,0185
○ Clear	6	20	(X=0.31,Y=0.32)	120	CL2-520C	1SFA619403R5208	10	0,0185
Rated voltage 230 V AC								
● Red	17	30	625	95	CL2-523R	1SFA619403R5231	10	0,0185
● Green	17	35	520	155	CL2-523G	1SFA619403R5232	10	0,0185
● Yellow	17	35	590	70	CL2-523Y	1SFA619403R5233	10	0,0185
● Blue	17	35	470	10	CL2-523L	1SFA619403R5234	10	0,0185
○ Clear	17	35	(X=0.31,Y=0.32)	225	CL2-523C	1SFA619403R5238	10	0,0185
Rated voltage 230 V AC with 60 V anti-inductive voltage								
● Red	17	60	625	75	CL2-623R	1SFA619403R6231	10	0,0185
● Green	17	80	520	70	CL2-623G	1SFA619403R6232	10	0,0185
● Yellow	17	70	590	50	CL2-623Y	1SFA619403R6233	10	0,0185
● Blue	17	80	470	5	CL2-623L	1SFA619403R6234	10	0,0185
○ Clear	17	80	(X=0.31,Y=0.32)	155	CL2-623C	1SFA619403R6238	10	0,0185
Rated voltage 380-415 V AC								
● Red	15-17	55	625	85	CL2-542R	1SFA619403R5421	10	0,0185
● Green	15-17	65	520	130	CL2-542G	1SFA619403R5422	10	0,0185
● Yellow	15-17	65	590	60	CL2-542Y	1SFA619403R5423	10	0,0185
● Blue	15-17	65	470	10	CL2-542L	1SFA619403R5424	10	0,0185
○ Clear	15-17	65	(X=0.31,Y=0.32)	395	CL2-542C	1SFA619403R5428	10	0,0185

Technical data

Standards and Approvals

IEC / EN 60947-1	Low Voltage switchgear and controlgear - Part 1: General rules
IEC / EN 60947-5-1	Low Voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices
IEC / EN 60947-5-5	Low Voltage switchgear and controlgear - Part 5-5: Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function
IEC / EN 60073	Basic and safety principles for man-machine interface, marking and identification, coding principles for indicators and actuators
IEC / EN 60529	Degrees of protection provided by enclosures (IP code)
EN 50013	Low Voltage switchgear and controlgear for industrial use, terminal marking and distinctive number for particular control switches
DIN 40050-9	Road vehicles; degrees of protection (IP-code); protection against foreign objects; water and contact; electrical equipment
UL 508	Industrial control equipment
CSA C22.2 No 14	Industrial control equipment

Environmental data

Degrees of protection

Pilot device:	IEC/EN DIN	UL/CSA
Pushbuttons	IP66, IP67 and IP69K	Type 1, 3R, 4, 4X, 12, 13
Selector switches	IP66, IP67 and IP69K	Type 1, 3R, 4, 4X, 12, 13
Buzzer	IP66, IP67 and IP69K	Type 1, 3R, 4, 4X, 12, 13
Heavy duty	IP66, IP67 and IP69K	Type 1, 3R, 4, 4X, 12, 13
Pilot lights	IP66, IP67 and IP69K	Type 1, 3R, 4, 4X, 12, 13
Emergency stops	IP66, IP67 and IP69K	Type 1, 3R, 4, 4X, 12, 13
Terminals	IP20	

Temperature	
Ambient temperature during operation	-25 to +70 °C
Storage temperature	-40 to +85 °C

Technical data

Cable connections

Operator	Cable terminal
Pushbutton	Plus-minus Pozidriv No. 2
Selector switch	Connectable area: min. 1 x 0.5 mm ² / 1 x AWG22 max. 2 x 1.5 mm ² / 2 x AWG14
Emergency stop	
Pilot light	Connectable area: min. 1 x 0.5 mm ² / 1 x AWG20 max. 2 x 2.5 mm ² / 2 x AWG14

Tightening torque

Operators locking nut	Min. 2 Nm / Max. 2.3 Nm
Cable terminals M3	0.8 Nm
Cable terminals M3.5	0.9 Nm

Short circuit protection

Max. fuse at 1 kA	gG 10A
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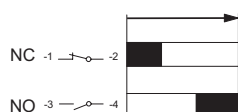
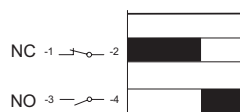
Mechanical life

Pushbuttons, selector switches, heavy duty	500 000 operations
Emergency stop pushbutton	50 000 operations

LED

Service life for LED bulbs means number of service hours until the brightness has been reduced down 50 %. Service life 50,000h, operating at 25°C, 40-70%rh	
Color of white LED	x=0.31 Y=0.32 means the position of color in the ICI chromaticity diagram
Voltage tolerance on LED bulbs	-30 to +10 % voltage is acceptable without affecting the service life
Voltage peaks on LED bulbs	Voltage peaks up to 1000 V current peaks up to 500 mA during a few msec
Glowing light	All integrated LED bulbs have a function built in to cut leakage currents

Make-and-break contacts

Pushbutton	Emergency stop pushbutton
	
■ = Closed contact	

Material

No ozone depleting substances in the products.	
All front of panel plastic components are made of polycarbonate	
PC polycarbonate	High impact strength, good outdoor resistance. Chemical resistance (see table below)
PSU polysulphone	Can withstand high temperatures, acids, basic solutions, alkaline compounds, oils, alcohols
PA polyamide	Can withstand high temperatures, aliphatic, aromatic and chlorinated hydrocarbons, esters, ketone-aldehydes, alcohols and basic solutions
PBT	Can withstand high temperature, aliphatic and aromatic hydrocarbons, acids, basic solutions, alcohols, grease and oils
Zinc	Good corrosion resistance in inland-, sea and industrial atmosphere
Light-alloy	Good corrosion resistance in inland-, sea and industrial atmosphere

Chemical resistance for polycarbonate

Chemical class	Effects
Acids	No significant effect under most typical conditions of concentration and temperature
Alcohols and alkalis	Generally compatible at low concentration and room temperature. Higher concentrations and elevated temperatures can result in etching and attack evidenced by decomposition
Aliphatic hydrocarbons	Generally compatible
Amines	Surface crystallization and chemical attack. Avoid
Aromatic hydrocarbons	Partial solvents and severe stress cracking agents (i.e., xylene, toluene). Avoid
Detergents and cleaners	Mild soap solutions are generally compatible. Strong alkaline materials should be avoided
Esters	Cause severe crystallization. Partial solvents. Avoid
Greases and oils	Pure petroleum types generally compatible. Many additives used with them are not
Halogenated, hydrocarbons	Solvents. Avoid.
Ketones	Cause severe crystallization and stress cracking. Partial solvents. Avoid
Silicone oil and greases	Generally compatible up to 85 °C

Note: Specified degree of protection is for operator mounted on panel. If other items are mounted in between, please make sure that they are correctly sealed.

Electrical data

Contacts

Ratings as per IEC 60947-5-1

Rated insulation voltage, U _i		300 V
Rated thermal current, I _t		5 A
Rated operational current, I _o		
Utilization category AC-15	at: 240 V	1 A
Rated operational current, I _o	at: 24 V	0.3 A
Utilization category DC-13	at: 125 V	0.2 A

Ratings as per UL, CSA, NEMA

	C300 AC	R300 DC
Rated insulation voltage	250 V	250 V
Rated thermal current	2.5 A	1 A
Rated operational current		
	at: 120 V	1.5 A
	at: 125 V	0.22 A
	at: 240 V	0.75 A
	at: 250 V	0.11 A

Short circuit protection

Max. fuse at 1 kA	gG 10A
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Buzzer

Max. fuse at 1 kA	gG 10A
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Ratings as per IEC 60947-5-1

Rated insulation voltage, U _i	300 v
Rated impulse withstand voltage u _{imp}	4kV
Rated frequency	50-60 Hz
Sound level db	≥90 db / 10 cm
Product service life	>5000 hours