

# LED lamps for the cabinet

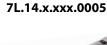
- Energy-saving (LED technology)
- Power consumption 5 W
- Luminous flux equivalent to a 95 W incandescent bulb
- Magnetic, screw or clip fixing
- With ON/OFF switch or motion sensor
- Wide voltage range by integrated power supply (20...60)V DC or (90...265)V AC
- Connected with AC/DC-coded cable
- Up to max. 10 lamps can be daisy chained by coded cables
- Long service life, maintenance free
- Extensive accessories:
- Preassembled connection cables with plugs or sockets
- Loose plugs or sockets for assembly
- Door contact switch for the cabinet

# 7L.10.x.xxx.0005





7L.11.x.xxx.0005

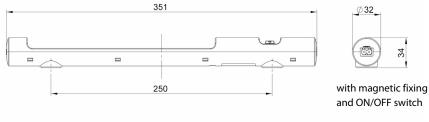




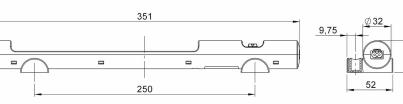


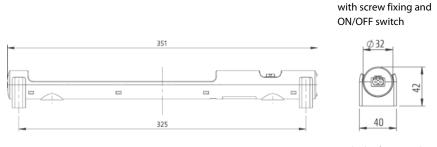
- With magnetic fixing
- With ON/OFF switch
- With screw fixing
- With ON/OFF switch
- With clip fixing

• With ON/OFF switch









\* Due to the components in the lamp, the permissible continuous current is limited to 2.5 A.

with clip fixing and ON/OFF switch

Lamp Data				
Type of lamp		LED, viewing angle 120°, Light colour: daylight white, colour temperature: 6000 - 7000 h		
Luminous flux	lm	400 at 120° (equivalent to 1200 lm at 360° or a 95 W incandescent bulb)		
Life time	h	60000		
Electrical Data				
Operating voltage	V AC (50/60 Hz)/V DC	100240/2448		
Operating range	V AC/V DC	90265/2060		
Nominal current (plugs, sockets) A		max. 2.5* (at max. 265 V AC or at 60 V DC)		
Rated power of the lamp W		max. 5		
General data				
Electrical connection		2-pole plug-in connection with interlock		
Connection cable to the lamp		Sheathed cable 2 x 1.5 mm <sup>2</sup> , flexible, 2.0 m long, with plug		
Interconnectors from lamp to lamp		Sheathed cable 2 x 1.5 mm², flexible, 1.0 m long, with plug and socket		
Socket and plug		2-pole, colour: white (AC), blue (DC), with interlock		
Type of mounting		Magnetic- or screw fixing (M5 screw) or clip fixing (M6 screw, slot: 13 mm)		
Housing		Plastic, transparent		
Ambient temperature °C		-30+60		
Protection class		ll (Isolation protected)		
Protection category		IP20		
Approvals (according to type)		C€		

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• With magnetic fixing

• With motion sensor



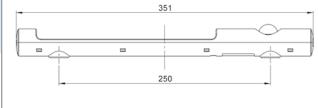
7L.13.x.xxx.0005



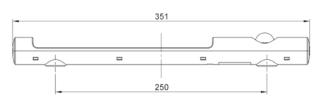


7L.15.x.xxx.0005

- With screw fixing
- With motion sensor
- With clip fixing
- With motion sensor

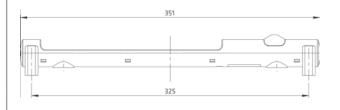








with screw fixing and motion sensor





with clip fixing and motion sensor

Lamp Data
2.5 A.
permissible continuous current is limited to
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Type of lamp		LED, viewing angle 120°, Light colour: daylight white, colour temperature: 6000 - 7000 K	
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Life time	h	60000	
Electrical Data			
Operating voltage V AC	(50/60 Hz)/V DC	100240/2448	
Operating range	V AC/V DC	90265/2060	
Nominal current (plugs, sockets)	А	max. 2,5* (at max. 265 V AC or at 60 V DC)	
Rated power of the lamp W		max. 5	
General data			
Time to switch OFF the LED lamp min		5 (fixed)	
Sensing area (motion sensor) m		approx. 2	
Electrical connection		2-pole plug-in connection with interlock	
Connection cable to the lamp		Sheathed cable 2 x 1.5 mm², flexible, 2.0 m long, with plug	
Interconnectors from lamp to lamp		Sheathed cable $2 \times 1.5 \text{ mm}^2$ , flexible, $1.0 \text{ m}$ long, with plug and socket	
Socket and plug		2-pole, colour: white (AC), blue (DC), with interlock	
Type of mounting		Magnetic- or screw fixing (M5 screw) or clip fixing (M6 screw, slot: 13 mm)	
Housing		Plastic, transparent	
Ambient temperature °C		-30+60	
Protection class		II (Isolation protected)	

IP20 CE

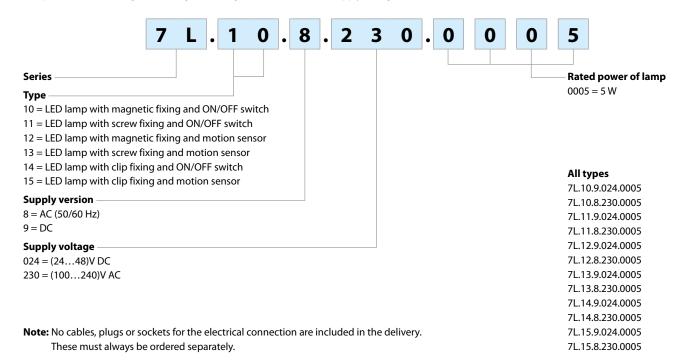
Protection category

Approvals (according to type)



# **Ordering information**

Example: Series 7L, LED light with magnetic fixing and ON/OFF switch, supply voltage 230 V AC.



### **Accessories**





07L.32

### Note:

In systems where still standing after turning off the main switch equipment under voltage, this should be specifically identified and consist of a luminous color.



07L.10



01 = AC connection cable,  $2 \times 1.5 \text{ mm}^2$ , 2.0 m long with socket: white colour

Cable: white colour for the input side to the AC-lamp

02 = DC connection cable,  $2 \times 1.5 \text{ mm}^2$ , 2.0 m long with socket: blue colour

Cable: white colour for the input side to the DC lamp 32 = AC connection cable,  $2 \times 1.5 \text{ mm}^2$ , 2.0 m long

with socket: white colour Cable: white orange for the input side to the AC-lamp

# All connection cables

07L.01

07L.02

07L.32



coded for series connection of 2 lamps (max. 10 lamps)

10 = AC Interconnectors, 2 x 1.5 mm², 1.0 m long, plug and socket: white colour Cable: white colour

20 = DC Interconnectors, 2 x 1.5 mm<sup>2</sup>, 1.0 m long, plug and socket: blue colour Cable: white colour

### All connection cables

07L.10

07L.20



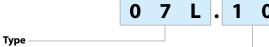
# **Accessories**



07L.11



07L.12



Sockets and plugs, coded, for AC or DC, for connection to a 2-pole cable  $(2 \times 1.5 \text{ mm}^2)$ , e.g. H05VV-F,  $2 \times 1.5 \text{ mm}^2$ 

9

0

0

1

11 = AC socket, loose, colour: white, for input side

12 = AC plug, loose, colour: white, for output side

13 = DC socket, loose, colour: blue, for input side

14 = DC plug, loose, colour: blue, for output side

 All sockets
 All plugs

 07L.11
 07L.12

 07L.13
 07L.14



90 = To be screwed into the cabinet frame, variably adjustable mounting slot, with latching effect

### Type of contact

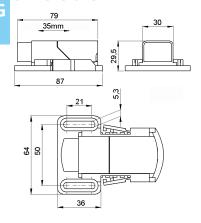
01 = 1 CO, 8 A

02 = 1 NC, 8 A

03 = 1 NO, 8 A



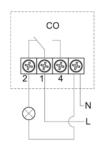
# **Dimensions**

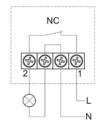


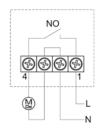
Contact data		07L.90.01	07L.90.02	07L.90.03
Number of contacts		1 CO	1 NC	1 NO
Max. continuous current	А	8	8	8
Rated voltage	V AC	250	250	250
Max. switching power AC1	VA	2000	2000	2000
Electrical life		> 10000 cycles		

General data		
Electrical connection		4-pole screw terminals
Torque of screw connections	Nm	max. 0.5
Connection cable		Sheathed cable, round, stranded, 2-pole
Max. size wire	mm²	0.751.5 (with ferrules)
Type of mounting		Screw (M5)
Housing		Plastic, grey/black, UL94 V-0
Position of installation		any
Ambient temperature	°C	-20+85
Protection class		II (Isolation protected)
Protection category		IP20
Approvals (details on request)		C€

# **Wiring diagrams**

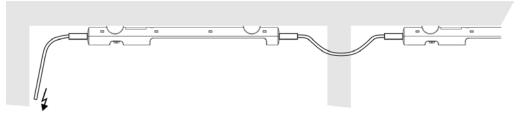








# **Application example**



This application example shows an LED lamp with the interconnection to a second LED lamp.

The lamps are easily connected together with plug connectors (up to max. 10 lamps).

The interlocked plug connections guarantee a secure hold and reliable electrical contact even with strong vibrations.

At cable assemblies which are different from the standard cables length, the plugs and sockets must be ordered separately.

# **Application instructions**

### **LED lamps**

The LED lamp in Series 7L are equipped with an ON/OFF switch or a motion sensor and provide outstanding characteristics for use in cabinets and housings. After opening the door of the cabinet or housing, the electronic or electrical components are very often not immediately recognisable due to the darkness or high packing density in the cabinet and this makes troubleshooting much more difficult.

The light intensity of 5 W LED lamp corresponds to a 95 W incandescent bulb and offers not only high brightness but also a long service life.

### **Electrical connection of the first lamp**

The electrical connection is made with the flexible connection cable,  $2 \times 1.5 \text{ mm}^2$ , 2.0 m long, with a 2-pole connector.

### Electrical connection of additional lamps in series

The connection to the additional lights uses the flexible 2 x  $1.5~\text{mm}^2$  connection cable, 1.0~m long, with a plug and socket connected.

### Connection with custom cable

Plugs and sockets are available for custom line lengths and types. The coding for AC and DC should be noted.

### Type of mounting

With magnetic fixing, the lamp can be mounted in any desired location on a steel surface in the cabinet or housing without installation effort. The LED lamp with the screw fixing offers through its permanent attachment a fixed illumination of the cabinet.

By turning the LED lamp in the clip fixing, the LED lamp can be directed exactly to the place that should be lighted. The LED lamp can also be taken out of the clip fixing to get more exact lighting in the cabinet or housing.

To loosen the sockets or the plug to the LED lamp is a screwdriver to use with a blade width of 2 mm.

#### First commissioning of lights with motion sensors

After electrically connecting the LED lamp, an automatic test program runs to check the motion sensor. The LED lamp flashes briefly twice and goes out again. After the motion sensor is activated again, the LED lamp turns on for 5 seconds and goes out again. The LED lamp is now ready to use. When the motion sensor is activated, the LED lamp will stay on about 5 min. The motion detection range of the motion sensor is 2 m. If the LED lamp is disconnected from the power supply and connected again, the test sequence starts again.

#### Door contact switch

The door contact switch monitors the position of the cabinet door in three different variants. Depending on the application, the NC switch turns the lighting ON when the cabinet door is opened.

In the NO-version, the lighting can be turned ON when the cabinet door is closed. With the CO-version, different applications can be turned ON or OFF.

The door contact is mounted with a 21 mm slot and a wide 35 mm adjustment range for the switch housing, so that the door contact can be variably mounted in many different positions. The two locking levers fasten the door contact switch so that a switching distance of 8 mm remains.

#### Note:

The lamps must not be used for household lighting.