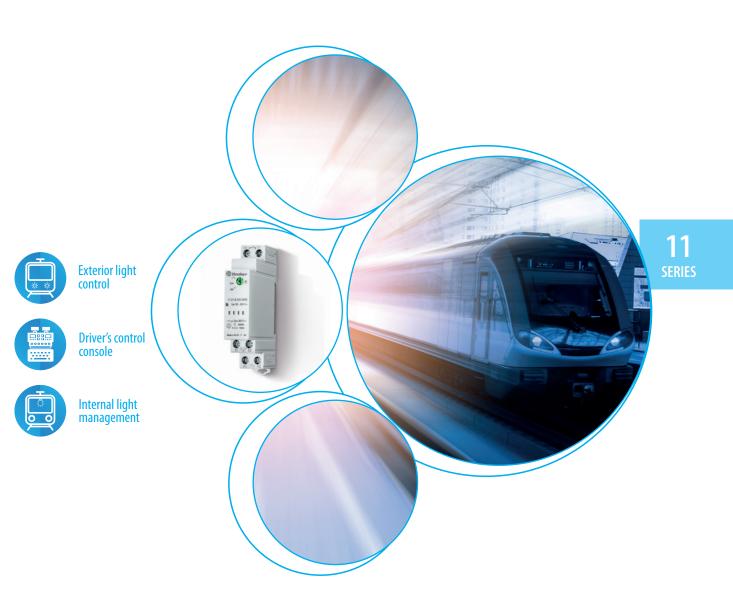


Light dependent relay 16 A





Relays for automatic control of lighting according to ambient light level - with separate light sensor

- Complies with EN 45545-2 +A1:2016 (protection against fire of materials), EN 61373 (resistance against random vibrations and shock, Category 1, Class B), EN 50155 (resistance to temperature and humidity, T1 class)
- Sensitivity adjustment from 1 to 100 lux
- One module, 17.5 mm wide
- Low energy consumption
- 24 V DC/AC version
- For the first 3 working cycles the delay time (On and Off) is reduced to zero in order to aid installation
- LED status indication
- SELV separation between contact and supply circuit
- Double insulation between supply and light sensor
- Delay Time: 1 sec ON 6 sec OFF
- 35 mm rail (EN 60715) mount
- Cadmium free contact material
- Cadmium free light sensor (IC photo diode)
- * Short term (10 min) +70°C

For outline drawing see page 5



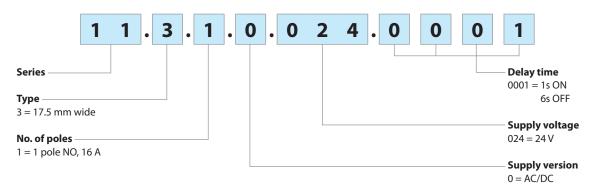
• 17.5 mm wide

Contact specification			
Contact configuration	1 NO (SPST-NO)		
Rated current/Maximum peak current A		16/30 (120 - 5 ms)	
Rated voltage/			
Maximum switching voltage	250/400		
Rated load AC1 VA		4000	
Rated load AC15 (230 V AC)	750		
Nominal lamp rating:			
230 V incan	2000		
fluore			
	1000		
fluor			
electromechanical ballast W		750	
CFL W		400	
	400		
LV halogen or LED with electronic ballast W			
	400		
	logen or LED with		
	mechanical ballast W mW (V/mA)	800	
Minimum switching load	1000 (10/10)		
Standard contact material	AgSnO ₂		
Supply specification			
Nominal voltage (U _N)	V AC (50/60 Hz)	24	
	DC	24	
Rated power	VA (50 Hz)/W	2.5/0.9	
Operating range	V AC (50 Hz)	16.828.8	
	DC	16.832	
Technical data			
Electrical life at rated load in AC1 cycles		100 · 10³	
Threshold setting:	Standard range lx	1100	
	High range lx	_	
Hysteresis (switching Off/On r	1.25		
Delay time: switching On/Off s		1/6	
Ambient temperature range °C		-25+55*	
Protection category:			
light dependent relay/light se	IP 20/IP 54 CE EN ®		
Approvals (according to type	Approvals (according to type)		



Ordering information

Example: 11 series light dependent relay, 1 NO (SPST-NO) 16 A contact, 24 V AC/DC supply.



Technical data

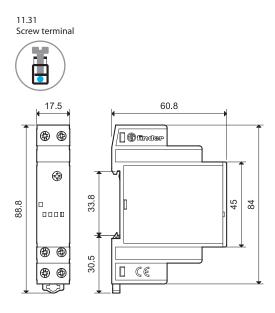
Insulation		Dielectric strength	Impulse (1.2/50 μs)	
	between supply and contacts	4000 V AC	6 kV	
	between supply and light sensor	2000 V AC	4 kV	
	between open contacts	1000 V AC	1.5 kV	
EMC specifications				
Type of test		Reference standard		
Electrostatic discharge	contact discharge	EN 61000-4-2	4 kV	
	air discharge	EN 61000-4-2	8 kV	
Radiated electromagnetic field (801000 MHz)		EN 61000-4-3	10 V/m	
Fast transients	on supply terminals	EN 61000-4-4	3 kV	
(burst 5/50 ns, 5 and 100 kHz)	on light sensor connection	EN 61000-4-4	3 kV	
Voltage pulses on supply terminals	common mode	EN 61000-4-5	4 kV	
(surge 1.2/50 μs)	differential mode	EN 61000-4-5	3 kV	
Radiofrequency common mode voltage	on supply terminals	EN 61000-4-6	10 V	
(0.1580 MHz)	on light sensor	EN 61000-4-6	3 V	
Voltage dips	70% U _N , 40% U _N	EN 61000-4-11	10 cycles	
Short interruptions		EN 61000-4-11	10 cycles	
Radio frequency conducted emissions	0.1530 MHz	EN 55014	class B	
Radiated emissions	301000 MHz	EN 55014	class B	
Terminals				
Screw torque	Screw torque		0.8	
Max. wire size	solid cable	1 x 6 / 2 x 4 mm ²	1 x 10 / 2 x 12 AWG	
	stranded cable	1 x 4 / 2 x 2.5 mm ²	1 x 12 / 2 x 14 AWG	
Wire strip length mm		9		
Other data				
Cable grip of light sensor mm		7.59		
Maximum cable length relay to light sensor m		50 (2 x 1.5 mm ²)		
Preset threshold	lx	10		
Power lost to the environment				
	in stand-by W	0.3		
without contact current W		0.9		
	with rated current W	1.7		

finder

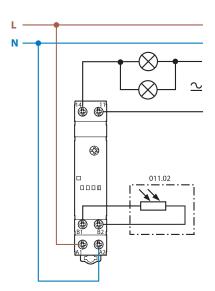
LED functions

LED	LED Supply voltage	NO output contact	
LED		11.31	
	OFF	Open	
1 1 1	ON	Open	
	ON	Closed	

Outline drawings



Wiring diagrams





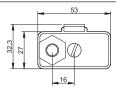
Accessories

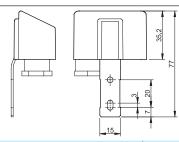


Light sensor (supplied with light dependent relay)

011.02

- Ambient temperature range: -40...+70 °C
- Cadmium free
- Non polarized
- Double insulated with respect to light dependent relay supply
- Not compatible with type 11.71.0.024.1001



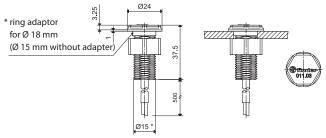


Flush-mounted light sensor (protection category: IP66/67)

011.03

- Ambient temperature range: -40...+70 °C - Cadmium free
- Non polarized
- Double insulated with respect to light dependent relay supply
- Not compatible with type 11.71.0.024.1001
- Supplied with light dependent relay (packaging code POA)

Connection cable PVC, flame retardant Material Conductor size mm² 0.5 Cable length mm 500 Cable diameter mm 5.0 Working voltage 300/500 Test voltage, cable kV 2.5 °C +90 Max. temperature



Sheet of marker tags, plastic, 48 tags, 6x12 mm, for CEMBRE's thermal transfer printers 060.48





060.48