

Control and automation

TL Line twilight switches



TL1

Technical features			
			TL1
Rated supply voltage	[V]		110 ÷ 230 AC
Contact type			1NO
Incandescent lamps cosφ 1	[W]		1000
Fluorescent lamps cosφ 0.8	[W]		300
Fluorescent- duo/electronic lamps	[W]		300
LED lamps	[W]		800
Rated frequency	[Hz]		50/60
Switching delay ON	[s]		23±10%
Switching delay OFF	[s]		23±10%
Brightness range (with tolerance of ±-20%)	[lx]		2...200
Protection degree twilight switch			IP20
Protection degree sensor			IP54
Operating temperature twilight switch	[°C]		-25...+55
Operating temperature sensor	[°C]		-40...+70
Storage temperature twilight switch	[°C]		-40...+70
Storage temperature sensor	[°C]		-50...+80
Power consumption	[W]		0.4 W cosφ 0.4 (idle) 0.9 W cosφ 0.42 (active)
Max terminal cross section	[mm²]		6
Terminals			loss-proof screw
Screw Type			PZ1
Tightening torque	terminals	[Nm]	0.5...1.2
	sensor screw	[Nm]	0.5...1.2
Mounting			on DIN rail
Switching status indication/ brightness range			red/green LEDs
Max wiring length	[m]		100
Modules	[n°]		1
Reference standards			EN 60669-1 EN 60662-2-1 EN60730-1

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TL Line modular twilight switches

TL1 twilight switch allows to switch ON and switch OFF lighting devices according to a scheduled level of the ambient light. It is used in combination with an external sensor to detect if the ambient light is higher or lower than the set level . A switching delay prevents them from operating unnecessarily when the light intensity suddenly changes (e.g. lightning, moving vehicles, etc.). The TL1 twilight switch 1 channel is preset with a 10 LUX from factory and it is equipped with 2 signalling LEDs that indicate the setpoint value and display the status of the contact . The operating instructions are printed on the side of the product.

Brightness range	Bbn 8012542	Order details		Price 1	Weight 1 piece	Pack unit
lx	EAN	Type code	Order code	piece	kg	pc.
2:200	299219	TL1	2CSM229921R1341		0,155	1

Accessories for TL Line modular twilight switches

The external sensor TLs is supplied in the same package of the switch, TL1, but it's also available separately as spare part. The upper part of the external case (with screw locking), made up of thermoplastic material, bears up against ultraviolet rays to guarantee an homogeneous diffusion of the daylight internally. The sensor is also equipped with a cable gland.



TLs

	Bbn 8012542	Order details		Price 1	Weight 1 piece	Pack unit
	EAN	Type code	Order code	piece	kg	pc.
External sensor	299318	TLs	2CSM229931R1341		0,008	1