
TWILIGHT SWITCH

TL LINE

Installation manual

TL1, TL1 Pole, TLS Installation Manual

Document ID: 9AKK107991A3020

Revision: A
2020-10-13

Disclaimer

The information in this document is subject to change without notice and should not be construed as a commitment by ABB Spa. ABB Spa assumes no responsibility for any errors that may appear in this document.

In no event shall ABB Spa be liable for direct, indirect, special, incidental or consequential damages of any nature or kind arising from the use of this document, nor shall ABB Spa be liable for incidental or consequential damages arising from use of any software or hardware described in this document.

Copyrights

This document and parts thereof must not be reproduced or copied without written permission from ABB Spa, and the contents thereof must not be imparted to a third party nor used for any unauthorized purpose.

The software or hardware described in this document is furnished under a license and may be used, copied, or disclosed only in accordance with the terms of such license.

© Copyright 2020 ABB Spa. All rights reserved.

Trademarks

ABB Spa is a registered trademark of the ABB Group. All other brand or product names mentioned in this document may be trademarks or registered trademarks of their respective holders.

Contact

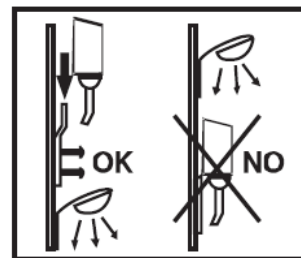
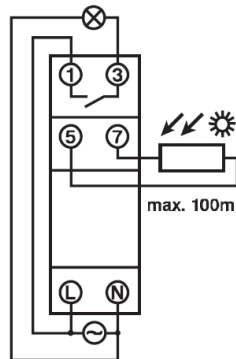
ABB SpA
Via Dell'industria, 18
20010 – Vittuone – Milano
Italy
Tel. +39 02 2415 0000



Safety warning

The device must always be protected on the incoming side by fuse or circuit breaker with a max nominal current of 16A

1. Mounting Instruction TL1 + TLs (peripheral device)



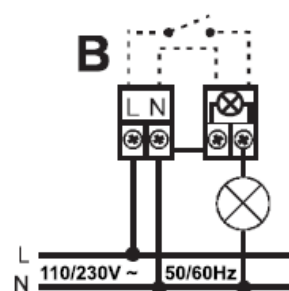
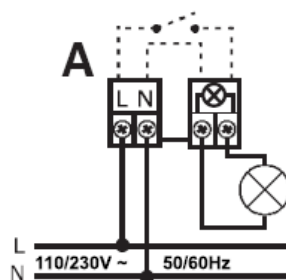
Tightening torque  PZ1 1,2Nm



Important notice

After installation the cable coming out from the device must be fixed reliably.

2. Mounting Instruction TL1 Pole



Tightening torque  PZ1 1,2Nm

3. Technical data

		TL1	TL1 Pole
Rated supply voltage	V	110 ÷ 230 AC	
Contact type		1NO polarized	
Incandescent lamps	110 V	W	1000
	230V	W	1000
LED/CFL – externally ballasted	110 V	W	300
	230V	W	300
LEDi/CFLi – self ballasted	110 V	W	30
	230V	W	100
Rated frequency	Hx	50/60	
Switching delay ON	s	23+-10%	25+-10%
Switching delay OFF	s	23+-10%	35+-10%
Brightness range (with tolerance of +-20%)	lx	2...200	
Protection degree twilight switch		IP20	IP54
Protection degree sensor		IP54	
Operating temperature twilight switch	°C	-25...+55°	-40...+70
Operating temperature sensor	°C	-40...+70	
Storage temperature twilight switch	°C	-40...+70	-50...+80
Storage temperature sensor	°C	-50...+80	
Power consumption	W	0.4 W cosphi 0.4 (idle) 0.9 W cosphi 0.42 (active)	0.25 W cosphi 0.35 (idle) 0.8 W cosphi 0.4 (active)

		TL1	TL1 Pole
Max terminal cross section	mm ²		6
Terminals			loss-proof screw
Screw Type			PZ1
Tightening torque: terminals	Nm		1.2
Tightening torque: screw sensor	Nm		1.2
Mounting		on DIN Rail	Pole/wall mounted
Switching status indication /brightness range			red/green LEDs
Max wiring length	m		100
Max wiring width	1000w	mm ²	2,5
	all other	mm ²	1,5
	sensor	mm ²	0,75
Modules	n°	1	
Reference standards			EN 60669-1 EN 60662-2-1 EN60730-1