DIGITAL-TWILIGHT-SENSOR-50W.

USER MANUAL

VERSION. 1
DATE. 11TH OF JULY 2019

RTM-DTS-50W.

PLEASE READ THIS MANUAL BEFORE INSTALLATION.

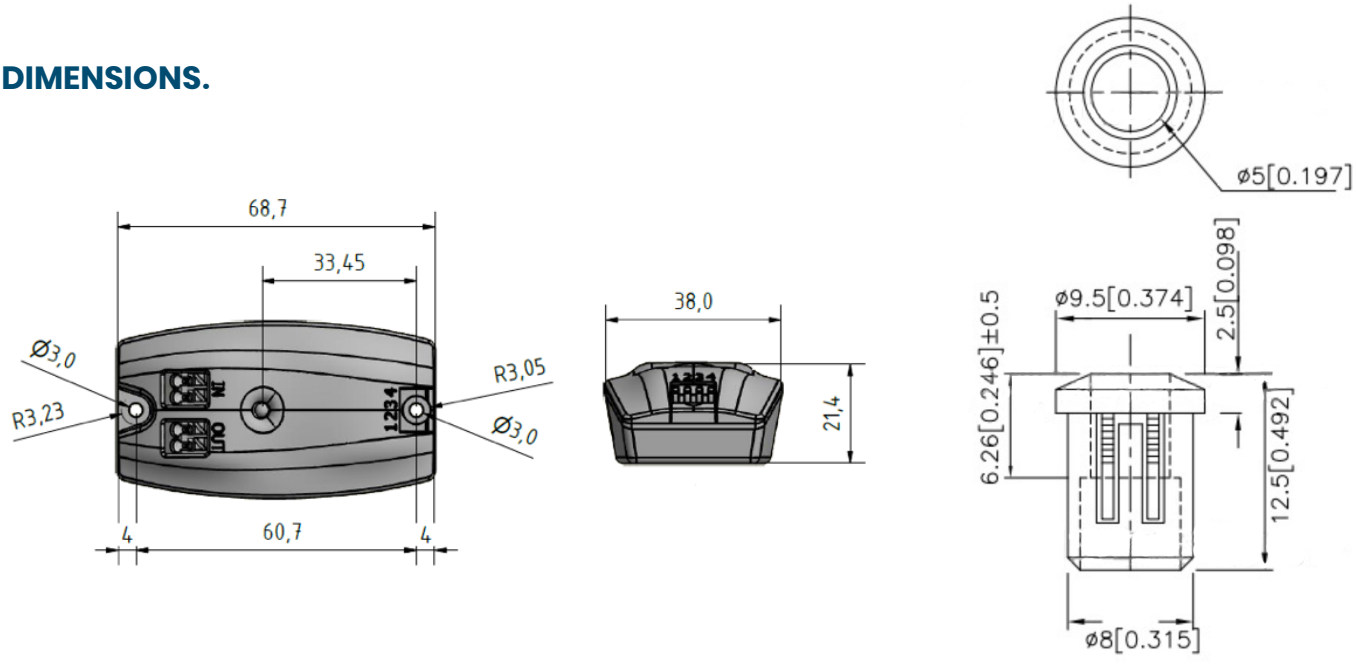
PACKAGING CONTAINS.

1x RTM·DTS·50W

CHARACTERISTICS.

Input voltage:	0 -36 V DC
Power consumption:	<1 Watt
IP value:	IP-67
Circumference in mm:	80

DIMENSIONS.



RTM-DTS-50W.

MECHANICAL INSTALLATION.

The RTM-DTS-50W can be mounted with two round head screws or bolts: Ø2,5mm, minimal 15mm long. The centre-to-centre distance of the mounting holes is 60,7 mm. The sensor holder must be placed in a hole with a bore of 8 mm. Place the lux sensor gently in the mounted sensor holder.

ELECTRICAL INSTALLATION.

Working on an electrical installation should be performed by a qualified technician.
Switch off the power source before installing the RTM-DTS-50W. Strip the wires from the power and light source cable with a 9mm (0.35 inch) length exposed wire. Connect the wires of the power source to the push connector marked “IN” according figure 2. Connect the wires of the light source to the push connector marked “OUT” according figure 2.

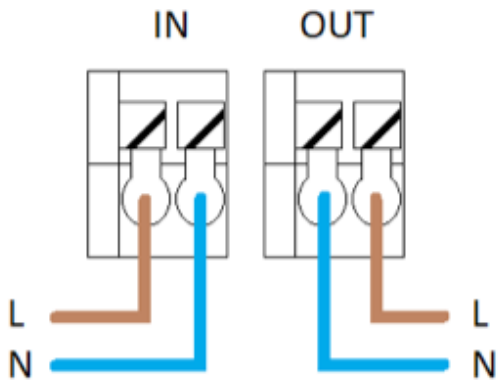


FIGURE 2.

RTM-DTS-50W.

OPERATION.

The behaviour of the RTM-DTS-50W can be determent by setting the dipswitches. Switch one is for testing the light source, while on: the output will be on and the sensor input will be ignored; while off: the output is dependent on the sensor input and settings of dipswitch two, three and four.
Dipswitches two, three and four are used to select the “LUX ON” threshold value according to figure 3. If the measured lux value drops below the selected “LUX ON” value for one minute, the output will be switched on. The output will be switched off when the measured lux value exceeds the “LUX OFF” value for more than one minute.

LUX ON	LUX OFF	1	2	3	4
25	50		■	■	■
50	100		■	■	
75	150		■		■
100	200		■		
150	300			■	■
200	400			■	
300	600				■
400	800				
IGNORE SENSOR		■			

UP
DOWN

FIGURE 3.

RTM-DTS-50W.

CHARACTERISTICS.

When the output is switched on, the LED will be green, when het output is switched off the LED will be red. Before the sensor is changing to it's new threshold value the LED will be orange for a minute. After that the LED will turn green or red, depending on the LUX value.

CAUTION.

The lux sensor responds to changes in surrounding light, therefore make sure not to mount the lux sensor directly pointed at a light source.