

TMP-EU & LV INSTALLATION GUIDE - UK - V01.02

1. CONNECTION:

CAUTION: positive security - contact given for powered radar -
powered off, NO and NC are reversed

EU: 220 V			LV: 10-30 VAC – 10-42 VDC		
Symbol	Colour	Function	Symbol	Colour	Function
	Yellow/Green	GND		Yellow/Green	N/A
~	Blue	POWER (neutral)	~	Red*	POWER (neutral)
~	Brown	POWER	~	Black*	POWER
	White	COM		White	COM
	Grey	NO		Yellow*	NO
	Yellow	NC		Blue*	NC

2. REMARKS:

*01/01/13: NEW WIRING COLOURS for Radars with S/N starting from 1203826 or higher

- Please use a bipolar circuit-breaker for the connection and disconnect the radar from power before maintenance intervention.
- The faston for connection to PCB must be protected with thermo sheath.
- Cable: LIVY 6x0.5mm² comply British standard 7671 - Connection: bulgin PX 0738/P – PX 0739/S

3. SETTINGS:

This special version of TM60 is designed for pedestrian and bicycles detection. It allows, among other applications, the extension of the green phase while pedestrians are crossing. The position of the piano switch (fig. 1) set different parameters. Remarks: please do not take account of the DIP switch 5 & 6! **The TMP can detect vehicles running at low speed in the detection area!**

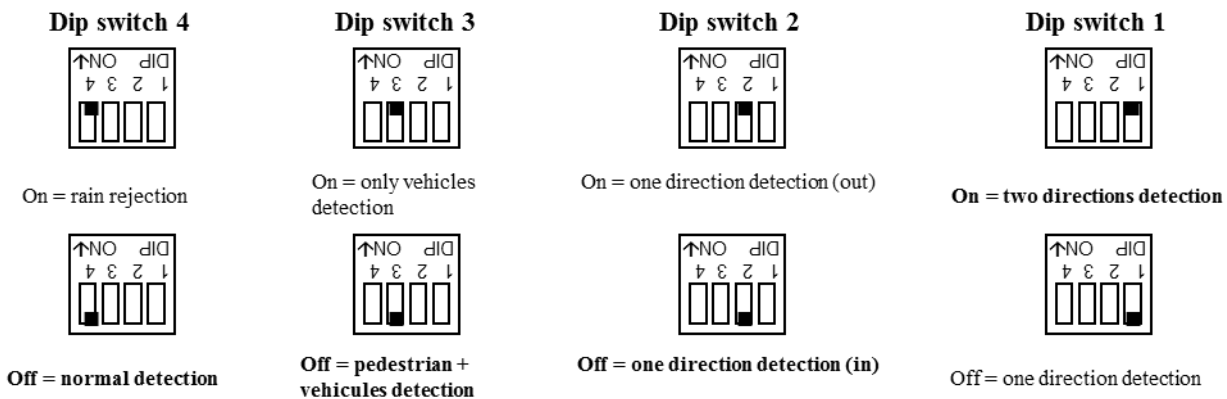


Fig. 1: parameters following DIP switch position

- To select the different parameters, place the DIP switch control levers (accessible without dismounting the front face, see fig. 2) following your choice (fig. 1). **When the settings are done, please place the sticker with care in order to ensure the unit is waterproof. The warranty covers only the radars which have been provided with their sticker!**
- The position "rain rejection" avoids the undesirable detection due to heavy rain or snow. When this function is selected, the reaction time of the radar is a bit longer.
- **Vehicle/pedestrian detection:**
 - When the switch 3 is "on" (only vehicles detection), the minimum speed threshold is 4 km/h with an installation angle of 45° to the vertical (see fig. 4 on reverse side).
 - The validation distance for a vehicle is 30 cm: the radar accepts the detection of the vehicle if it moves on a minimum distance of 30 cm at a speed of 4 km/h in the detection pattern.
- In order to place the **switch 2** in function, the switch 1 must be in position "off".

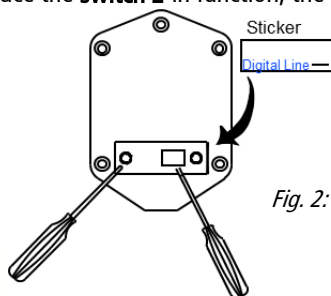


Fig. 2: front face

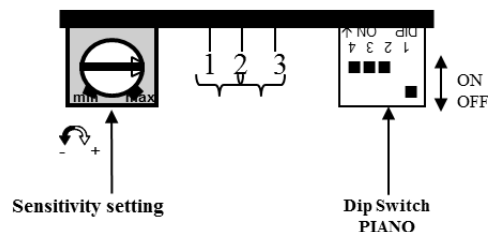
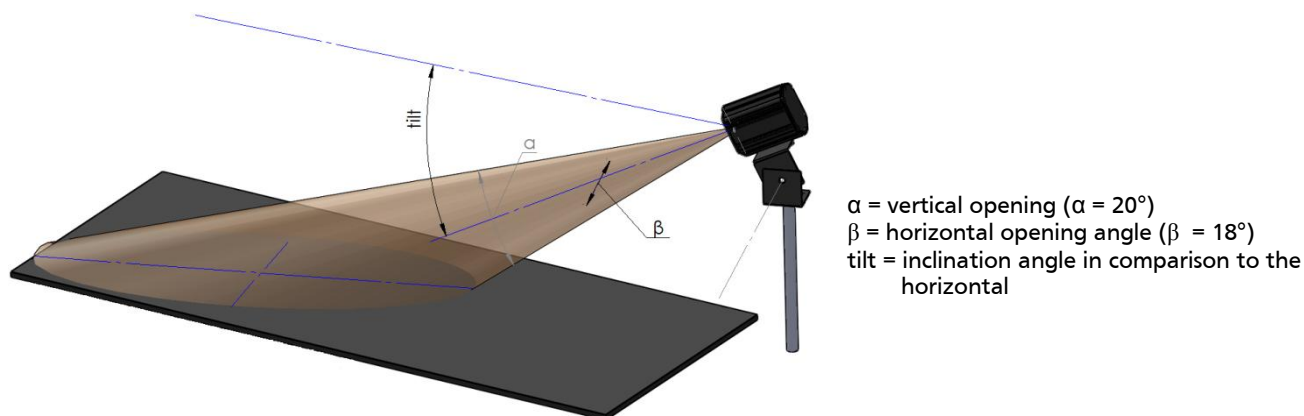


Fig. 3: settings

4. INSTALLATION:

If $h \leq 5 \text{ m}$, $85^\circ \leq \alpha \leq 90^\circ$ or if $h > 5 \text{ m}$, $30^\circ \leq \alpha \leq 85^\circ$. Please contact your distributor for further information.



α = vertical opening ($\alpha = 20^\circ$)
 β = horizontal opening angle ($\beta = 18^\circ$)
 tilt = inclination angle in comparison to the horizontal

Fig. 4: Detection lobe

Detection pattern:

We have calculated some detections patterns surfaces, based on common installation parameters. Please note that these values result from theoretic calculations and do not take in account environmental factors. These values are given for the sensitivity factory setting (see fig. 1).

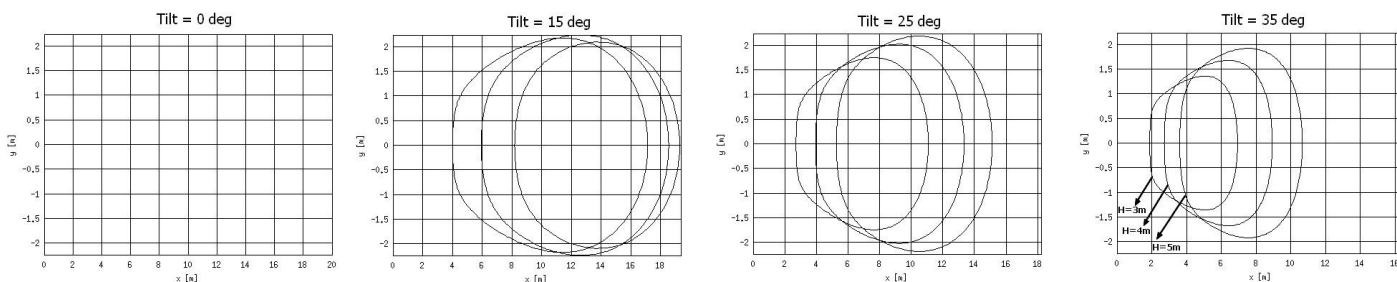


Fig. 5: Dimensions of the lobe following the installation parameters

5. TECHNICAL CHARACTERISTICS:

	TMP-EU	TMP-LV
Protection level	IP 65	
Power supply	220 VAC $\pm 10\%$ - 50 Hz	10-30 VAC - 10-42 VDC - 50 Hz $\pm 10\%$
Power consumption	4 VA	< 1 VA
Detected object min. speed	0,5 km/h, following installation angle	
User output	Inverted relay contact Resistive load: 110 VAC 0,3 A - 24 VDC 0,3 A Inductive load: 110 VAC 0,2 A - 24 VDC 0,3 A Visible LED on front	Inverted relay contact Resistive load: 110 VAC 0,5 A - 24 VDC 1 A Inductive load: 110 VAC 0,2 A - 24 VDC 0,3 A Visible LED on front
Relay hold time	2 sec.	
Temperature range	-40° C to +75° C	
Dimensions	L70 x H100 x P216 mm	L70 x H100 x P120 mm
Weight	1050 gr	

Tip: RED LED: if you don't want it to be visible: reverse the polycarbonate sticker on the front of the radar.