PHOTON SISTEM
TEST METER TBS

USER MANUAL

The tester meter (TBS01) is an essential device for the professional installer because it allows to perfom many controls on the whole barriers's system in a rapid and simple way.
For a correct visualization of the information the remote controller (HUB) is to be already configured with the correct distances of connected zones (distance jumper zone A – B – C – D)

Set the dip-switches as follows (and RESET the HUB):

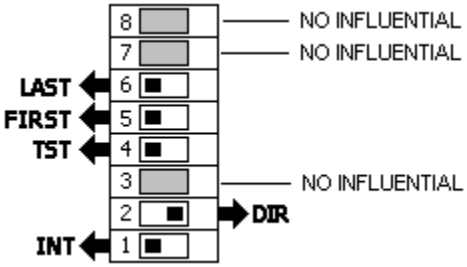

FIG. 1

Connection to the PHOTON system

Once fixed the bar and verified that all the cables are properly connected, power the system and verify that the current consumption is correct (each 2 meter height bar absorb about 100mA)

Plug the tester connector onto the dedicated pins on the ROTAX CAP (FIG. 2 e FIG. 3).

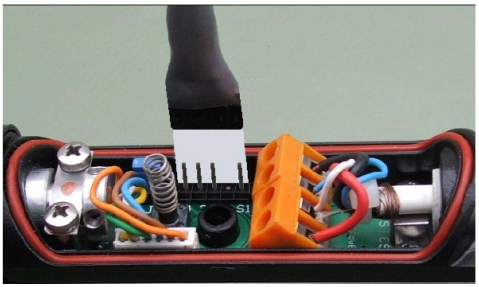

FIG. 2

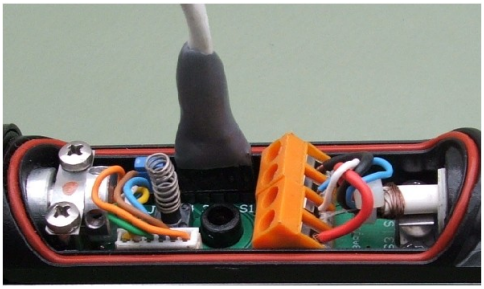

FIG. 3

Power on the tester rotating clockwise the sensitivity knob and move it to the "MED" position; the tester will begin a self-test sequence to verify the efficiency of leds, then it will switch automatically on the visualization of the zone "A" corresponding to bars addressed as "1" and "2". When the led corresponding to the selected zone will end to blink and remain fixed turned on, it means that the tester is properly connected to the serial communications and visualize in real-time the status of all

the working functions of the bars, that are :

1. ALIGNMENT / COUPLING LEVEL
2. TAMPERS STATUS
3. DISQUALIFICATION STATUS
4. FAILURE STATUS

All these functioning status are independent for each of the two bars of the selected ZONE, showed as I° and II°.

The selected ZONE determines which pair of bars will be monitored, the following table shows the combinations :

ZONE	*BARS ADDRESS*
A	1 and 2
B	3 and 4
C	5 and 6
D	7 and 8

Every time the “ZONE Select” button is pressed, the zone will be changed with the cyclic sequence A – B – C – D – A...

If the selected zone is not connected, the zone led will blink permanently indicating that is not possible to link with a zone not present (in this condition it will turn on also the FAILURE leds).

1 ALIGNMENT – COUPLING

Rotate slowly the ROTAX pivot of the bars to be oriented (considering the reference sign on the pivot) in order to turn off the leds of the single channels (BEAMS) as the alignment improves. When all the leds are turned off, rotate the tester knob to the “HIGH” position. If there is some led turned on, rotate very slowly the ROTAX in order to turn them off. You can continue to increase the knob level and orient the ROTAX more and more fine in order to obtain a better coupling, but if all the leds are turned off when the knob is on “HIGH”, it means that the infrared transmission signal is at optimal level and the alignment can be considered finished.

The tester can be connected to any bar of the system and from this position is able to verify the status of all the other bars, included the coupling level, simply selecting the zone to be monitored and rotating the sensitivity knob until one or more led begin to blinks irregularly: the knob position in that condition represent the coupling level according to the 5 sectors: Very Low – Low – Medium – High – Very High.

2 TAMPERS STATUS

It displays if one or both of the tampers positioned in the caps of that zone are open.

3 DISQUALIFICATION STATUS

This feature is active ONLY if the HUB controller is configured as external (EXT). The tester leds displays the disqualification status independently for each bar of a pair (one bar may have some beam blinded by the sun but the other one may be still efficient).

Anyway the visualization is only a qualitative information of the istantaneous working condition; the HUB processes further more this information before activating the relative disqualification output on terminal block, that is not showed by the tester.

4 FAILURE STATUS

It displays a failure on the zone selected, normally caused by a serial line cut, a wrong address configuration on the bars or a generic fail of the power line.

TURNING ON – OFF

It is recommended to plug the tester connector onto the bar when the tester is turned off (sensitivity knob rotated counter-clockwise beyond the minimun level until the “click”) and to turn it on only after the connection. In the same way turn the tester off before unplug its connector from the bar.

When the verifying work with the tester is closed, REMEMBER to configure the HUB from TEST to OPERATE condition.

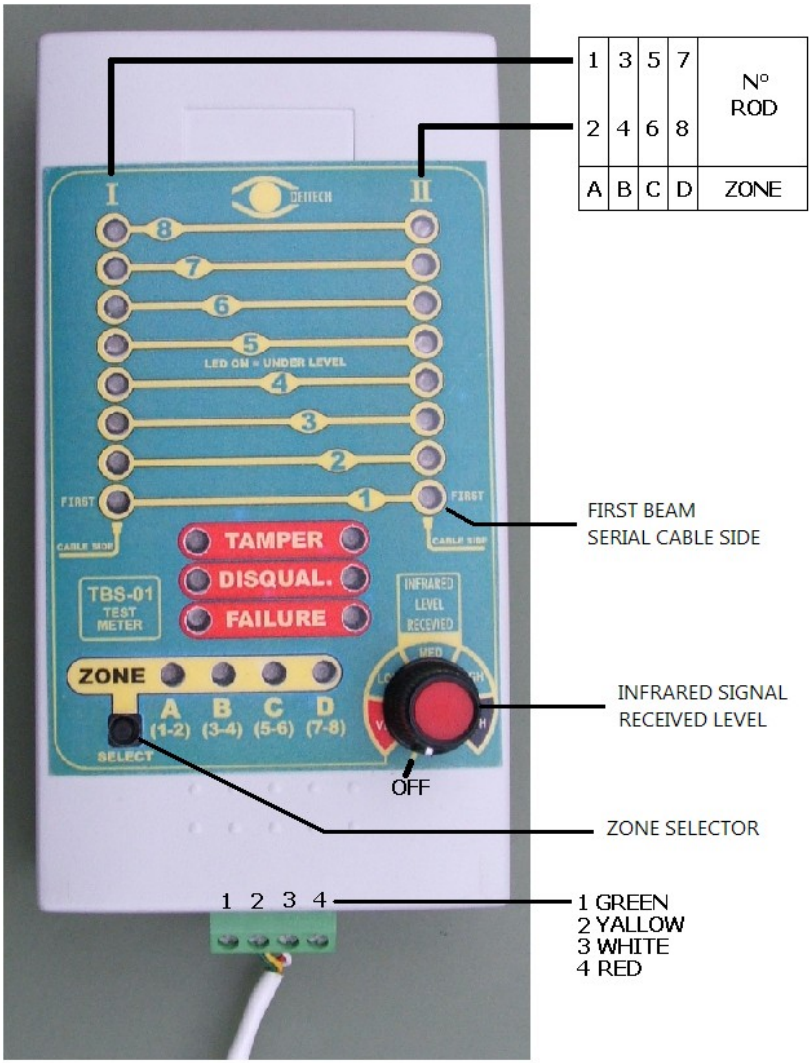

FIG. 4

DICHIARAZIONE DI CONFORMITA'
DECLARATION OF CONFORMITY

IL PRODUTTORE
THE MANUFACTURER **DEITECH S.R.L. VIA CHAMBERY 79/10 TORINO -ITALY**

DICHIARA CHE QUESTO PRODOTTO DECLARES THAT THE PRODUCT

TEST METER MOD.
TBS

E' CONFORME ALLE SEGUENTI DIRETTIVE EUROPEE
CONFORM WITH THE FOLLOWING EUROPEAN DIRECTIVES

COMPATIBILITA' ELETTROMAGNETICA
ELECTROMAGNETIC COMPATIBILITY
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