TECHNICAL MANUAL

PASSLIGHT

Additional system status indicator on RS-485 serial line

090020835

CE

IMQ-SISTEMI DI SICUREZZA

EL.MO. SPA

FOREWORD

FOR THE INSTALLER:

Comply strictly with current standards governing the installation of electrical systems and security systems, and with the manufacturer's directions given in the manuals supplied with the products.

Provide the user with full information on using the system installed and on its limitations, pointing out that there are different levels of security performance that will need to suit the user's requirements within the constraints of the specific applicable standards. See that the user looks through the warnings given herein.

FOR THE USER:

Check the system's operation thoroughly at regular intervals, making sure the equipment can be armed and disarmed properly. Make sure the system receives proper routine maintenance, employing the services of specialist personnel who meet the requirements prescribed by current regulations.

Ask your installer to check that the system suits changing operating conditions (e.g. changes in the extent of the areas to be protected, change in access methods, etc...).

This device has been designed, built and tested with the utmost care and attention, adopting test and inspection procedures in accordance with current legislation. Full compliance of the working specifications is only achieved in the event the device is used solely for its intended purpose, namely:

Additional system status indicator on RS-485 serial line

The device is not intended for any use other than the above and hence its correct functioning in such cases cannot be assured. Consequently, any use of the manual in your possession for any purpose other than those for which it was compiled - namely for the purpose of explaining the product's technical features and operating procedures - is strictly prohibited.

Production processes are closely monitored in order to prevent faults and malfunctions. However, the componentry adopted is subject to an extremely modest percentage of faults, which is nonetheless the case with any electronic or mechanical product. Given the intended use of this item (protection of property and people), we invite you to adapt the level of protection offered by the system to suit the actual situation of risk (allowing for the possibility of impaired system operation due to faults or other problems), while reminding you that there are specific standards for the design and production of systems intended for this kind of application.

We hereby advise you (the system's operator) to see that the system receives regular routine maintenance, at least in accordance with the provisions of current legislation, and also check on as regular a basis as the risk involved requires that the system in question is operating properly, with particular reference to the control unit, sensors, sounders, dialler(s) and any other device connected. You must let the installer know how well the system seems to be operating, based on the results of periodic checks, without delay.

Work involved in the design, installation and maintenance of systems incorporating this product should be performed only by personnel with suitable skills and knowledge required to work safely so as to prevent any accidents. It is vital that systems be installed in accordance with current legislation. The internal parts of certain equipment are connected to the mains and therefore there is a risk of electrocution when maintenance work is performed inside without first disconnecting the primary and emergency power supplies. Certain products include batteries, rechargeable or otherwise, as an emergency backup power supply. If connected incorrectly, they may cause damage to the product or property, and may endanger the operator (explosion and fire).

CE DECLARATION OF CONFORMITY

The PASSLIGHT indicator complies with current European EMC and LVD directives. You can log into the elmospa.com website to read the full Declaration of Performance: registration is quick and easy.

DISPOSAL INSTRUCTIONS - INFORMATION FOR THE USER

According to Directive 2012/19/EU on the Waste of Electric and Electronic Equipment (WEEE), it is here specified that this Electrical-Electromechanic Device started to be commercialized after 13th August 2005, and it shall be disposed of separately from ordinary waste products.

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1. GENERAL FEATURES

PASSLIGHT is a system status indicator tha can be connected to the RS-485 serial line of control units that can manage the I8 addressable proximity key reader, e.g. NET, ET4, ETR, ETR G2, Titania, Villeggio and Pregio series.
Here is a list of its most interesting features:

- **It can be installed side to side with the I8 reader, or anywhere along the serial line, using its same address;**
- **It can be installed without an I8 proximity reader, in stand-alone mode;**
- **Its address can be selected with the dip switches on its side, just like I8 proximity readers;**
- **It clearly shows the arming and anomaly status of a control unit;**
- **It has two light zones on its front, a larger one with green or red LEDs, the smaller one with a yellow anomaly LED;**
- **Its light intensity can be set to Standard or to Maximum by connecting two terminals together or not;**
- **It is compatible with bticino MAGIC supports, and with other supports with the use of adapters such as: I8/TLGH for bticino LIGHT; I8/GWPB for GEWISS PLAY BUS; I8/VIMP for VIMAR PLANA - see the pricelist for more.**

2. TECHNICAL SPECIFICATIONS

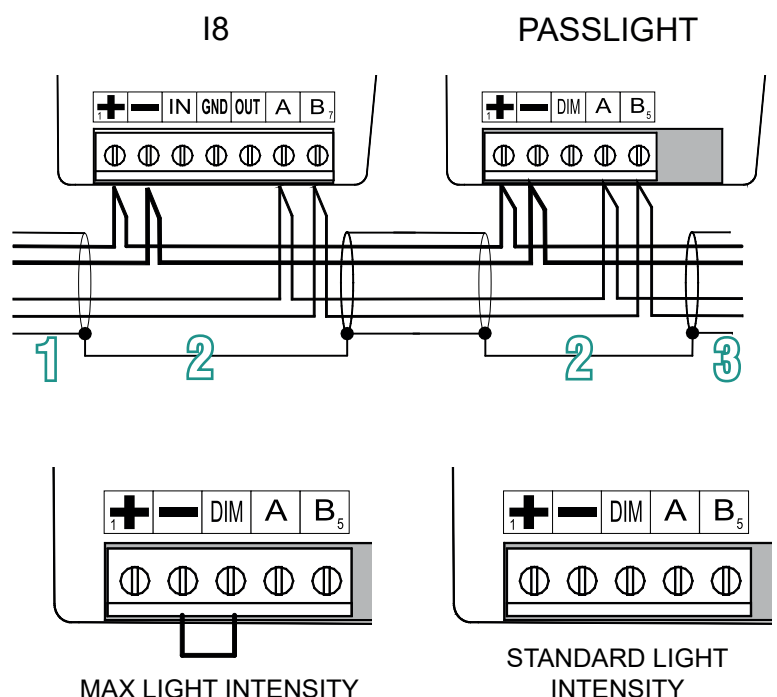|	
Model:	**PASSLIGHT**
Performance level:	III
EN 50131 compliance:	Security grade 2, environmental class II (III if installed inside a housing that grants it)
Power supply:	DC 12 V from the RS-485 line (10 to 15 V)
Current draw:	27.3 mA
Connectors:	Terminal block
Light intensity variation:	DIM terminal connected to the negative terminal: max intensity; DIM terminal not connected (default): standard intensity
Configuration:	Selectors on the right side for setting the identification address and the stand-alone mode
Operating conditions:	−10 to +45 °C as stated by the manufacturer
Weight:	15 g
Dimensions:	L21 × H42 × P46 mm
Parts supplied:	Technical manual

Warning: if PASSLIGHT is installed inside a flush box, protect it against removal and against tampering with the connection cables by having your installer apply a proper tamper protection to the cover plate.

3. WIRING

- If coupling PASSLIGHT with an I8 proximity key reader, set dip switch 8 to **OFF** (default) and set the same address for the I8 key reader and for PASSLIGHT.
- If using PASSLIGHT without a proximity reader, set dip witch 8 to **ON** and program the control unit as if there was an I8 proximity reader with the same address as PASSLIGHT.

1. To the previous device in the serial line, or to the control unit. Connect the cable shield to the negative pole at the control unit.
2. Wire the cable shields together.
3. To the next device in the serial line.

Connect the terminals as shown to increase the luminosity level of PASSLIGHT.

I8   PASSLIGHT

MAX LIGHT INTENSITY

STANDARD LIGHT INTENSITY

4. INDICATIONS

Install PASSLIGHT with the large light above and the smaller one below.

Area	Status	Meaning	Corresponding I8 indication
Above (large)	Green light ON	No associated sectors are armed, no sectors in exit time	Red arming LED OFF
	Slow red blinking	At least one sector in exit time	Red arming LED blinking slowly
	Red light ON	At least one associated sector is armed, no sectors in exit time	Red arming LED ON or blinking fast
Below (small)	OFF	No anomalies on the system	Yellow anomaly LED OFF
	Yellow light ON	At least one anomaly in the system	Yellow anomaly LED ON

PASSLIGHT makes no difference between normal and Max Security arming.

PASSLIGHT is not influenced by dip switch 8 (disable status indication) of an I8 key reader with the same address.

If PASSLIGHT is connected to a Villeggio series control unit, it will not be possible to flag the "reader arming LED OFF when inactive" checkbox in the Options page of the programming software.

PASSLIGHT is not compatible with control units that do not use the arming status when in EN50131 compatibility mode.

5. PROGRAMMING

Set the **address** by acting on the switches numbered 1 to 7.
The following table lists which switches to turn ON for each address.

Add.	switches ON	Add.	switches ON	Add.	switches ON	Add.	switches ON	Add.	switches ON
		26	1 – – 4 5 – –	52	1 2 – – 5 6 –	78	1 – 3 4 – – 7	104	1 2 3 – – 6 7
1	– – – – – – –	27	– 2 – 4 5 – –	53	– – 3 – 5 6 –	79	– 2 3 4 – – 7	105	– – – 4 – 6 7
2	1 – – – – – –	28	1 2 – 4 5 – –	54	1 – 3 – 5 6 –	80	1 2 3 4 – – 7	106	1 – – 4 – 6 7
3	– 2 – – – – –	29	– – 3 4 5 – –	55	– 2 3 – 5 6 –	81	– – – – 5 – 7	107	– 2 – 4 – 6 7
4	1 2 – – – – –	30	1 – 3 4 5 – –	56	1 2 3 – 5 6 –	82	1 – – – 5 – 7	108	1 2 – 4 – 6 7
5	– – 3 – – – –	31	– 2 3 4 5 – –	57	– – – 4 5 6 –	83	– 2 – – 5 – 7	109	– – 3 4 – 6 7
6	1 – 3 – – – –	32	1 2 3 4 5 – –	58	1 – – 4 5 6 –	84	1 2 – – 5 – 7	110	1 – 3 4 – 6 7
7	– 2 3 – – – –	33	– – – – – 6 –	59	– 2 – 4 5 6 –	85	– – 3 – 5 – 7	111	– 2 3 4 – 6 7
8	1 2 3 – – – –	34	1 – – – – 6 –	60	1 2 – 4 5 6 –	86	1 – 3 – 5 – 7	112	1 2 3 4 – 6 7
9	– – – 4 – – –	35	– 2 – – – 6 –	61	– – 3 4 5 6 –	87	– 2 3 – 5 – 7	113	– – – – 5 6 7
10	1 – – 4 – – –	36	1 2 – – – 6 –	62	1 – 3 4 5 6 –	88	1 2 3 – 5 – 7	114	1 – – – 5 6 7
11	– 2 – 4 – – –	37	– – 3 – – 6 –	63	– 2 3 4 5 6 –	89	– – – 4 5 – 7	115	– 2 – – 5 6 7
12	1 2 – 4 – – –	38	1 – 3 – – 6 –	64	1 2 3 4 5 6 –	90	1 – – 4 5 – 7	116	1 2 – – 5 6 7
13	– – 3 4 – – –	39	– 2 3 – – 6 –	65	– – – – – – 7	91	– 2 – 4 5 – 7	117	– – 3 – 5 6 7
14	1 – 3 4 – – –	40	1 2 3 – – 6 –	66	1 – – – – – 7	92	1 2 – 4 5 – 7	118	1 – 3 – 5 6 7
15	– 2 3 4 – – –	41	– – – 4 – 6 –	67	– 2 – – – – 7	93	– – 3 4 5 – 7	119	– 2 3 – 5 6 7
16	1 2 3 4 – – –	42	1 – – 4 – 6 –	68	1 2 – – – – 7	94	1 – 3 4 5 – 7	120	1 2 3 – 5 6 7
17	– – – – 5 – –	43	– 2 – 4 – 6 –	69	– – 3 – – – 7	95	– 2 3 4 5 – 7	121	– – – 4 5 6 7
18	1 – – – 5 – –	44	1 2 – 4 – 6 –	70	1 – 3 – – – 7	96	1 2 3 4 5 – 7	122	1 – – 4 5 6 7
19	– 2 – – 5 – –	45	– – 3 4 – 6 –	71	– 2 3 – – – 7	97	– – – – – 6 7	123	– 2 – 4 5 6 7
20	1 2 – – 5 – –	46	1 – 3 4 – 6 –	72	1 2 3 – – – 7	98	1 – – – – 6 7	124	1 2 – 4 5 6 7
21	– – 3 – 5 – –	47	– 2 3 4 – 6 –	73	– – – 4 – – 7	99	– 2 – – – 6 7	125	– – 3 4 5 6 7
22	1 – 3 – 5 – –	48	1 2 3 4 – 6 –	74	1 – – 4 – – 7	100	1 2 – – – 6 7	126	1 – 3 4 5 6 7
23	– 2 3 – 5 – –	49	– – – – 5 6 –	75	– 2 – 4 – – 7	101	– – 3 – – 6 7	127	– 2 3 4 5 6 7
24	1 2 3 – 5 – –	50	1 – – – 5 6 –	76	1 2 – 4 – – 7	102	1 – 3 – – 6 7	128	1 2 3 4 5 6 7
25	– – – 4 5 – –	51	– 2 – – 5 6 –	77	– – 3 4 – – 7	103	– 2 3 – – 6 7		