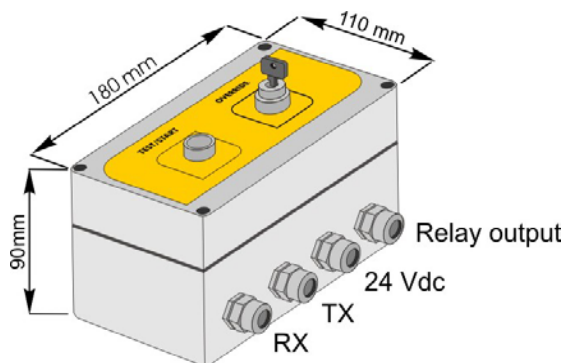


PSEN iop1 SERIES

INSTRUCTION MANUAL



GENERAL INFORMATION

The **PSEN iop1** connection box facilitates the connection and use of the PSEN 4B-T/L/S safety light curtains.

The device externally presents:

- A key-switch for override function.
- A TEST/START push-button for the activation of the Test, Restart, Reset.

The connection box contains:

- Extractable clamps for
 - Receiving unit connection (J1)
 - Emitting unit connection (J2)
 - Power supply connection to 24V (J3)
 - Relay output connection (J4)
 - External control unit connection (precabled).
- Two RLY1 and RLY2 relay outputs each with two N.O. open contacts.



Use both relays to guarantee the safety function.
The use of one single relay can reduce the system's safety degree.

👍 K11 K12 + K21 K22

👎 ~~K11 K12 + K13 K14~~

FUNCTIONS

The **PSEN iop1** connection box allows to manage directly the following functions, without the need to carry-out other operations:

FUNCTION	USING	PROCEDURE
TEST	TEST/START push-button	Press push-button for at least 0.5 sec.
RESTART	TEST/START push-button	Press push-button for at least 0.5 sec. if manual reset function has been selected using the dip-switches of the RX unit.
RESET	TEST/START push-button	Press push-button for at least 5 sec. if device presents functioning irregularity.
EDM	Precabled	The control is active if the function has been selected using the dip-switches of the RX unit.
OVERRIDE	Key-switch + TEST/START push-button	Switch the key selector kept the position. It can be possible to enable the function under certain condition only (refer to the instruction manual of the PSEN 4B-T/L/S series. Note 1: When Override function is active, the external Muting signalling device blinks to indicate the exclusion of the safety device. Note 2: The maximum duration of the Override function is 120 sec., after which the light curtain returns to normal functioning even if key selector is kept pressed. If the key selector is released before the maximum period, the Override function is immediately deactivated.

For more information please refer to the instruction manual of the PSEN 4B-T/L/S series.

RELAY SPECIFICATIONS

The connection box uses 2 force-guided contact relays.

The use of these relays within the given specifications is recommended, even if the manufacturer specifies the use of these relays for voltage and currents superior to these values.

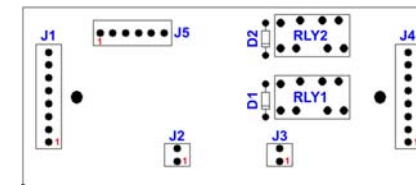
To guarantee the correct isolation and avoid damage as well as premature ageing, each line has to be protected using a delayed 6A fuse and the load characteristics have to conform with the following indications:

Max. switching voltage: 250 Vac
Max. switching current: 2 A

INSTALLATION

Wall mounting is possible using the internal slots that can be accessed opening the box and eliminating the screws necessary for the fixing of the PCB.

ELECTRICAL CONNECTION:



Connector	Pin	Description
J1	1	24 Vdc (RX unit)
	2	GND (RX unit)
	3	OSSD1 (RX unit)
	4	OSSD2 (RX unit)
	5	EDM (RX unit)
	6	OVERRIDE 1 (RX unit)
	7	TEST/START (RX unit)
	8	OVERRIDE 2 (RX unit)
J2	1	24 Vdc (TX unit)
	2	GND (TX unit)
J3	1	24 Vdc (External power supply)
	2	GND (External power supply)
J4	1	K11 N.O. external contact #1, Relay 1
	2	K12
	3	K13 N.O. external contact #2, Relay 1
	4	K14
	5	K21 N.O. external contact #1, Relay 2
	6	K22
	7	K23 N.O. external contact #2, Relay 2
	8	K24
J5	1	Key-switch (precabled)
	2	Key-switch (precabled)
	5	TEST/START push-button (precabled)
	6	TEST/START push-button (precabled)

► A Pilz Ges.m.b.H., 01 7986263-0, Fax: 01 7986264, E-Mail: pilz@pilz.at ► AUS Pilz Australia Industrial Automation LP., 03 95446300, Fax: 0395446311, E-Mail: safety@pilz.com.au ► B ► L Pilz Belgium, 09 3217570, Fax: 09 3217571, E-Mail: info@pilz.be ► BR Pilz do Brasil Sistemas Eletronicos Industriais Ltda., 11 4337-1241, Fax: 11 4337-1242, E-Mail: pilz@pilzbr.com.br ► CH Pilz Industrieelektronik GmbH, 062 88979-30, Fax: 062 88979-40, E-Mail: pilz@pilz.ch ► DK Pilz Skandinavien K/S, 74436332, Fax: 74436342, E-Mail: pilz@pilz.dk ► E Pilz Industrieelektronik S.L., 938497433, Fax: 938497544, E-Mail: pilz@pilz.es ► F Pilz France Electronic, 03 88104000, Fax: 03 88108000, E-Mail: siege@pilz-france.fr ► FIN Pilz Skandinavien K/S, 09 27093700, Fax: 09 27093709, E-Mail: pilz.fi@pilz.dk ► GB Pilz Automation Technology, 01536 460766, Fax: 01536 460866, E-Mail: sales@pilz.co.uk ► I Pilz Italia Srl, 031 789511, Fax: 031 789555, E-Mail: info@pilz.it ► IRL Pilz Ireland Industrial Automation, 021 4346535, Fax: 021 4804994, E-Mail: sales@pilz.ie ► J Pilz Japan Co., Ltd., 045 471-2281, Fax: 045 471-2283, E-Mail: pilz@pilz.co.jp ► MEX Pilz de Mexico, S. de R.L. de C.V., 55 5572 1300, Fax: 55 5572 4194, E-Mail: info@mx.pilz.com ► NL Pilz Nederland, 0347 320477, Fax: 0347 320485, E-Mail: info@pilz.nl ► NZ Pilz New Zealand, 09-6345350, Fax: 09-6345350, E-Mail: t.catterson@pilz.co.nz ► P Pilz Industrieelektronik S.L., 229407594, Fax: 229407595, E-Mail: pilz@pilz.es ► PRC PilzChina Representative Office, 021 62493031, Fax: 021 62493036, E-Mail: sales@pilz.com.cn ► ROK Pilz Korea Office, 031 8159541, Fax: 031 8159542, E-Mail: info@pilzkorea.co.kr ► SE Pilz Skandinavien K/S, 0300 13990, Fax: 0300 30740, E-Mail: pilz.se@pilz.dk ► TR Pilz Elektronik Güvenlik Ürünleri ve Hizmetleri Tic. Ltd. ©Sti., 0224 2360180, Fax: 0224 2360184, E-Mail: pilz.tr@pilz.de ► USA Pilz Automation Safety L.P., 734 354-0272, Fax: 734 354-3355, E-Mail: info@pilzusa.com
► www.pilz.com
► D Pilz GmbH & Co. KG, Sichere Automation, Felix-Wankel-Straße 2, 73760 Ostfildern, Deutschland, +49 711 3409-0, Fax: +49 711 3409-133, E-Mail: pilz.gmbh@pilz.de