

PHOTOELECTRIC SENSORS

THRU BEAM
EXTERNAL WALL MOUNTING

- Conforming to EN 12978
- 35 m range
- Wide beam diameter-easy to align
- Output LED indicator
- 1A relay SPDT
- Syncronism betwen 2 emitters and receivers

INFRA

P41 Series

IDENTIFICATION CODE

P **41**

SERIES P

12÷24 V AC/DC

Note: Each package includes emitter and receiver

AVAILABLE	RECEIVER	EMITTER
NOMINAL SWITCHING DISTANCE (Sn)	**35 m**	
TOLERANCE	+10/-10 %Sn	
EMISSION	Infrared (875 nm)	
NOMINAL VOLTAGE	12-24 V AC/DC	
FREQUENCY	50 ÷ 60 Hz	
OUTPUT	2 Relay	-
N° OF OPERATIONS	Mec.=$5x10^6$ ops min. Elect. $3x10^5$ ops min. (1A 28 VDC) $1x10^5$ ops min. (0.5A 120 VAC)	
MAX OUTPUT CURRENT	1A 28 VDC - 0.5A 120 VAC (28 W, 60 VA)	-
ABSORPTION	40 mA	40 mA
YELLOW LED	Output indicator	-
GREEN LED	Supply indicator	-
SWITCHING FREQUENCY	5 Hz	
START UP DELAY	≤ 300 ms	
TEMPERATURE LIMITS	-20 ÷ +60 °C	
LIGHT IMMUNITY	> 5000 Lux(1)	
PROTECTION DEGREE	IP 54	
CONNECTIONS	with connectors	
HOUSING MATERIAL	Housing: nylon loaded with fiberglass - Filter: methacrylate	
WEIGHT (Approximately)	315 g	

(1) Determined with halogen tungsten lamp 3000 °K.

IMPORTANT WARNING

The thru beam photoelectric sensor can be used as a sensor to detect the presence of an obstacle if the sensing beam gets interrupted.
In no case this device can substituted the obbligatory safety devices that must be applied on all dangerous equipments.

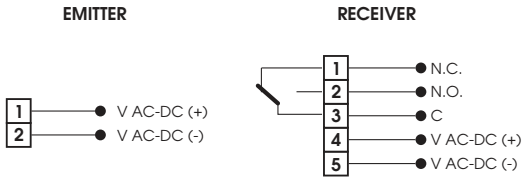
SYNCHRONISM

This photoelectric thru beam permits to work in synchronism (without mutual interference) with another couple of P40 or P41 photoelectric thru beam. To activate the synchronic working, you must supply the photoelectric thru beam in AC and connect PHASE and NEUTRAL to the same clamps of the emitter and of the receiver.

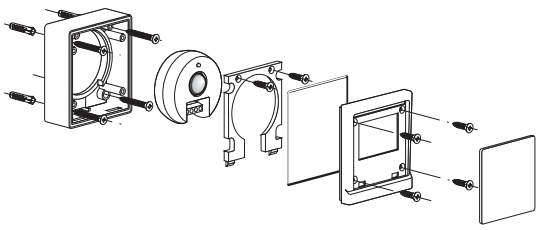
EXAMPLE: Emitter: 1 + Phase • 2 - Neutral
Receiver: 4 + Phase • 5 - Neutral

If the photocells are supplied in DC, the synchronism function is not activated.

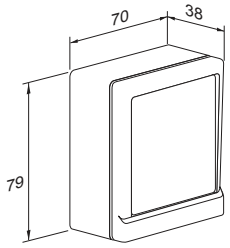
WIRING DIAGRAMS



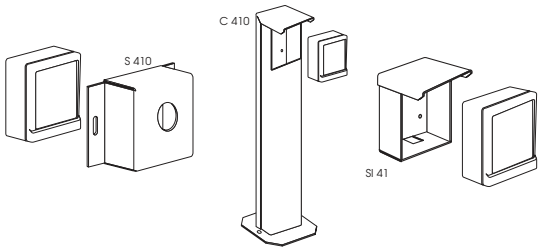
DETAILED SIGHT



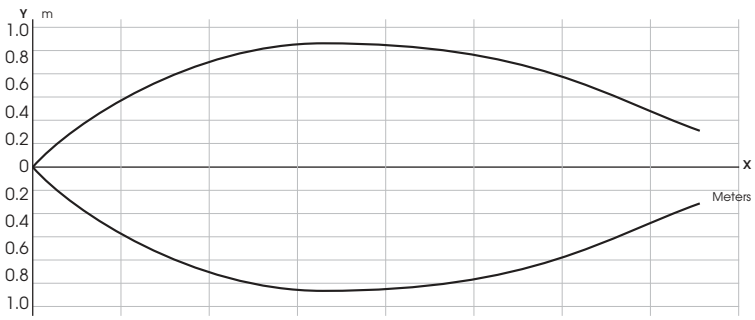
DIMENSIONS (mm)

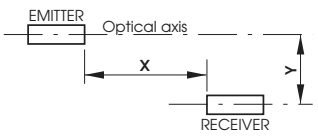


USE WITH ACCESSORIES



CHARACTERISTICS CURVE





GATES

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