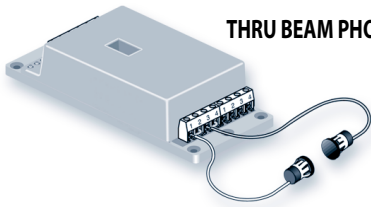


Thru Beam Photoelectric Sensors



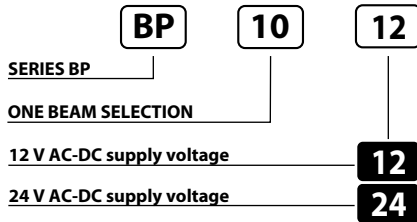
THRU BEAM PHOTOELECTRIC SENSORS BP 1012- BP 1024 FOR AUTOMATIC DOORS RELAY OUTPUT

- *Thru beam door sensor with separate amplifier*
- *12 or 24 V AC/V DC input*
- *5 Hz switching frequency*
- *1A relay SPDT*
- *Sensitivity adjustment*
- *6 m long integral cables*

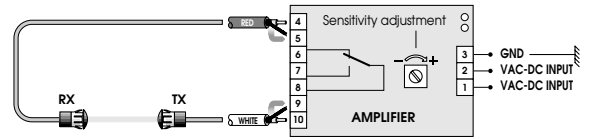
BP Series



Identification code



Wiring diagrams



Note: Each package includes 1 pair of projectors.

AVAILABLE	ONE BEAM SELECTION
SWITCHING DISTANCE	10 m
EMISSION	Infrared (875 nm)
NOMINAL VOLTAGE	12 or 24 VAC DC (-15 / +10%)
FREQUENCY	50 ÷ 60 Hz
OUTPUT	2 Relay UNI 8612 norms
N° OF OPERATIONS	(5x10 ⁶ mec. op. - 3x10 ⁵ elect. op.)
MAX OUTPUT CURRENT	1A 24 VDC - 0.5A 120 VAC
ABSORPTION	70 mA
YELLOW LED	Output and activated thru beam indicator
GREEN LED	Supply indicator
SENSITIVITY ADJUSTMENT	Present
SWITCHING FREQUENCY	5 Hz
RESPONSE TIME	200 mS
START UP DELAY	≤ 300 mS
TEMPERATURE LIMITS	-20 ÷ +60°C
LIGHT IMMUNITY	5000 Lux ⁽¹⁾
PROTECTION DEGREE Amplifiers	IP 54
PROTECTION DEGREE Projectors	IP 65
CONNECTIONS	with connectors
HOUSING MATERIAL Amplifiers	ABS
HOUSING MATERIAL Projectors	Body - Lenses: methacrylate
WEIGHT (Approximately)	300 g

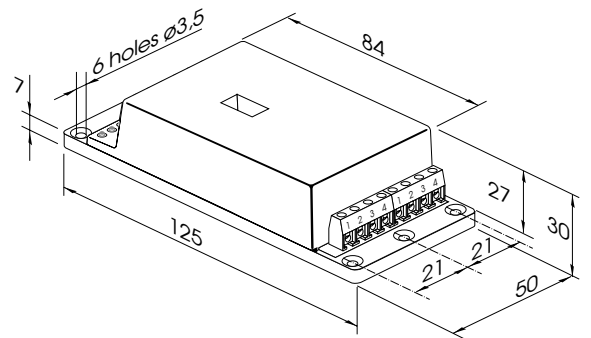
⁽¹⁾ Determined with halogen tungsten lamp 3000° K.

Important warning

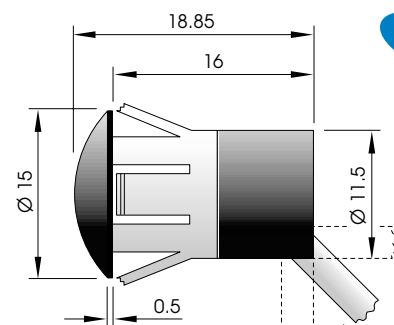
The thru beam photoelectric sensor can be used as a sensor to detect the presence of an obstacle if the sensing beam gets interrupted.

In no case this device can substituted the obligatory safety devices that must be applied on all dangerous equipments.

Amplifier dimensions (mm)



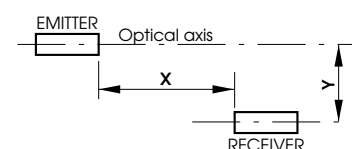
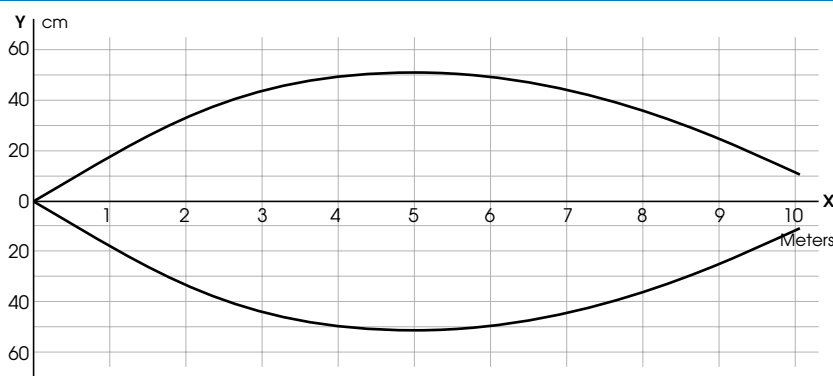
Projector dimensions (mm)



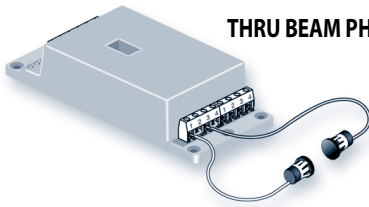
New

Cable lenght 6 m
2 cables output positions

Characteristics curve



Thru Beam Photoelectric Sensors



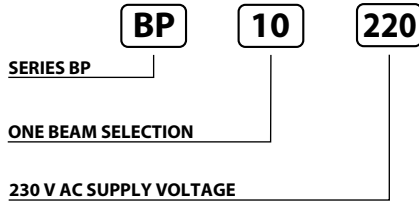
THRU BEAM PHOTOELECTRIC SENSORS BP 10220 FOR AUTOMATIC DOORS RELAY OUTPUT

- Thru beam door sensors with separate amplifier
- 230 V AC/V DC input
- 5 Hz frequency/response
- 8 A relay SPDT
- Sensitivity adjustment
- 6 m long integral cables

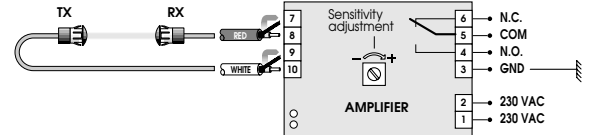
BP Series



Identification code



Wiring diagrams

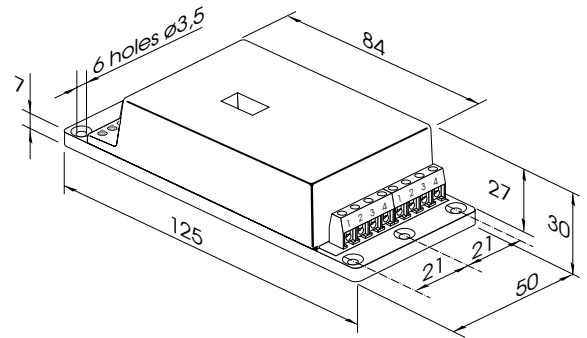


Note: Each package includes 1 pair of projectors.

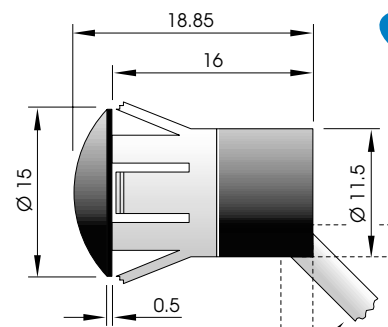
AVAILABLE	ONE BEAM SELECTION
SWITCHING DISTANCE	10 m
EMISSION	Infrared (875 nm)
NOMINAL VOLTAGE	230V AC DC (-15 / +10%)
FREQUENCY	50 ÷ 60 Hz
OUTPUT	Relay
N° OF OPERATIONS	Relay (5x10 ⁷ mec. op. -1x10 ⁵ elect. op.)
MAX OUTPUT CURRENT	8A 250 VAC
ABSORPTION	17 mA
YELLOW LED	Output and activated thru beam indicator
GREEN LED	Supply indicator
SENSITIVITY ADJUSTMENT	Present
SWITCHING FREQUENCY	5 Hz
RESPONSE TIME	200 mS
START UP DELAY	≤ 300 mS
TEMPERATURE LIMITS	-20 ÷ +60°C
LIGHT IMMUNITY	5000 Lux ⁽¹⁾
PROTECTION DEGREE Amplifiers	IP 54
PROTECTION DEGREE Projectors	IP 65
CONNECTIONS	with connectors
HOUSING MATERIAL Amplifiers	ABS
HOUSING MATERIAL Projectors	Body - Lenses: methacrylate
WEIGHT (Approximately)	350 g

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

Amplifier dimensions (mm)



Projector dimensions (mm)



New

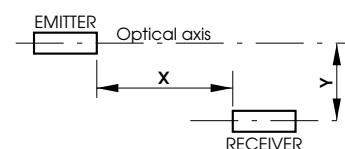
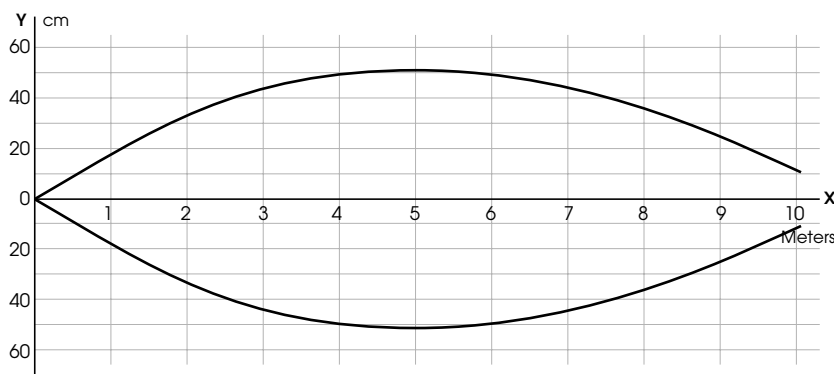
Cable length 6 m
2 cables output positions

Important warning

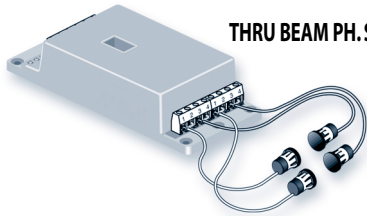
The thru beam photoelectric sensor can be used as a sensor to detect the presence of an obstacle if the sensing beam gets interrupted.

In no case this device can substituted the obligatory safety devices that must be applied on all dangerous equipments.

Characteristics curve



Thru Beam Photoelectric Sensors



THRU BEAM PH. SENSORS BP 20-30 FOR AUTOMATIC DOORS WITH TIMER RELAY OUTPUT DOUBLE BEAM

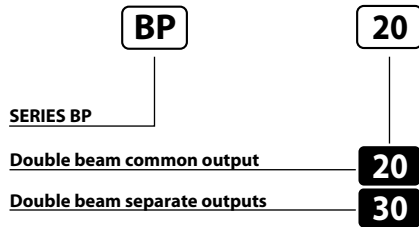
- Double beam thru beam sensors-single or dual channel
- 1A relay SPDT
- Relay output: Single channel: 1A SPDT - Dual channel: 1A SPDT
- 1 sec OFF delay timer, selectable
- 12-24 V AC/V DC input
- Sensitivity adjustment
- 6 m long integral cables

BP Series

New



Identification code

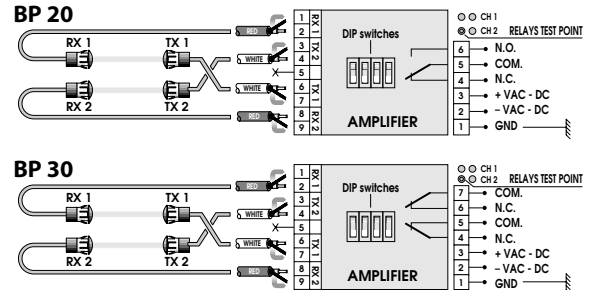


Note: Each package includes 1 pair of projectors.

AVAILABLE	DOUBLE BEAM SELECTION
SWITCHING DISTANCE	0.3 ÷ 10 m
EMISSION	Infrared (875 nm)
NOMINAL VOLTAGE	12 ÷ 24 V AC DC ± (-15 / +10%)
FREQUENCY	50 ÷ 60 Hz
OUTPUT	2 Relay UNI 8612 norms
N° OF OPERATIONS	Mec. = 5x10 ⁶ ops min. - Elect. = 3x10 ⁵ ops min; (1A 28VDC) 1x10 ⁵ ops min. (0.5A 120VAC)
MAX OUTPUT CURRENT	1A 28 VDC - 0.5A 120 VAC (28W 60V A)
ABSORPTION	80 mA
YELLOW LED	Output and activated thru beam 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 Amplifiers	IP 50
PROTECTION DEGREE Projectors	IP 65
CONNECTIONS	with connectors
HOUSING MATERIAL Amplifiers	ABS
HOUSING MATERIAL Projectors	Body - Lenses: methacrylate
WEIGHT (Approximately)	430 g

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

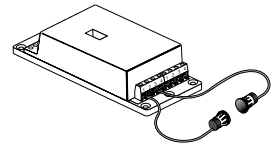
Wiring diagrams



One beam selection



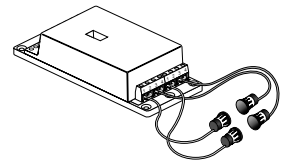
In case the photoelectric thru beam is used with just one emitter and one receiver, check that the selection DIP-Switch 3 (DIP 3) is in position ON.



Duoble beam selection



In case the photoelectric thru beam is used with two emitters and two receivers, check that the selection DIP-Switch (DIP 3) is in position OFF.



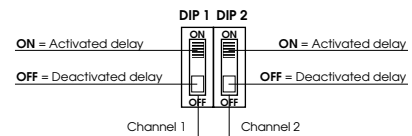
Reduced working distance (BP20 mod.)



In order to reduce the working (switching) distance to 50% set the dip switch "DIP 4" in position ON.

Delay at sensor deactivation

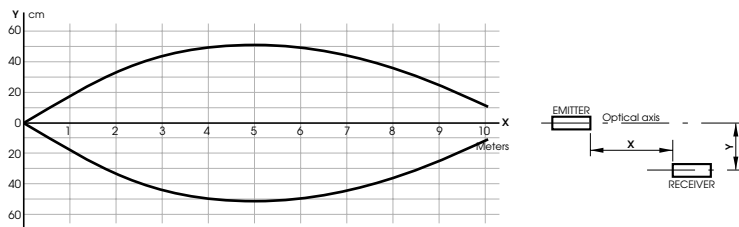
Operating on the suitable DIP-Switches it is possible to select on each channel a delay to the sensor deactivation, it permits to keep the sensor excited for about 1 second once the obstacle has passed the active area. Regulating the DIP-Switches (DIP 1 and DIP 2) in position ON, the delay is activated.



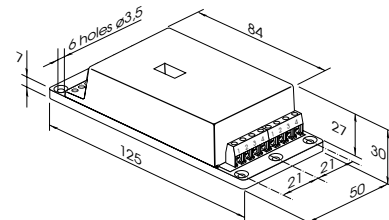
Important warning

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 obligatory safety devices that must be applied on all dangerous equipments.

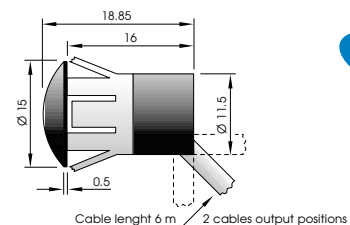
Characteristics curve



Amplifier dimensions (mm)



Projector dimensions (mm)



New