

Resolution 16 mm

Controlled Height 66 ÷ 1164 mm

Controlled Range HP ÷ 4000 mm

Outputs 2 PNP

Directives 2004/108/EC - 2006/95/EC

Light Curtain for the detection at infrared rays for the control - automation - objects presence control on areas - object passage detection on a conveyor - pieces counting - etc ..

Light Curtain FLY-P016 are NOT safety devices and must not be used for safety control of the machines on which they are installed.

CONTROLLED AREAS HEIGHT

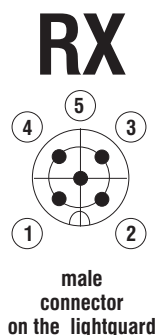
Product Code	Controlled Height Presence Detection HP mm	Counting (hatch area recommended)	Total Height HT mm	Response Time ms (*)	Working Distance controlled min/max mm
FLY-P016-0066	66	34	145	1,0	HP - 4000
FLY-P016-0127	127	95	206	1,5	HP - 4000
FLY-P016-0188	188	156	267	2,0	HP - 4000
FLY-P016-0249	249	217	328	2,6	HP - 4000
FLY-P016-0310	310	278	389	3,1	HP - 4000
FLY-P016-0371	371	339	450	3,6	HP - 4000
FLY-P016-0432	432	400	511	4,1	HP - 4000
FLY-P016-0493	493	461	572	4,7	HP - 4000
FLY-P016-0554	554	522	633	5,2	HP - 4000
FLY-P016-0615	615	583	694	5,7	HP - 4000
FLY-P016-0676	676	644	755	6,2	HP - 4000
FLY-P016-0737	737	705	816	6,8	HP - 4000
FLY-P016-0798	798	766	877	7,3	HP - 4000
FLY-P016-0859	859	827	938	7,8	HP - 4000
FLY-P016-0920	920	888	999	8,4	HP - 4000
FLY-P016-0981	981	949	1060	8,9	HP - 4000
FLY-P016-1042	1042	1010	1121	9,4	HP - 4000
FLY-P016-1103	1103	1071	1182	9,9	HP - 4000
FLY-P016-1164	1164	1132	1243	10,5	HP - 4000

(*) The object to be detected must occlude the curtain for a time equal to or greater than the response time

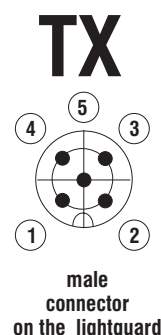
Power Supply	24Vdc \pm 10% (You may use the same power for both units TX/RX) Protection against reverse polarity
Absorption TX - RX Units	130 mA max exclusive of load
Outputs	2 PNP static outputs + 1 Light ON + 1 Dark ON max 150 mA
Output Protection	Short circuit and overload (In case of short circuit and / or remove the overload power for at least 3 seconds)
Operating Mode	Fast up to 500 pcs / min - Ultra fast up to 2000 pcs / min (depending on the length of the object to be detected)
Time Pulse Output	Fast minimum 100 ms - Ultra fast minimum 15 ms
LED Signallings	<p>TX Unit</p> <ul style="list-style-type: none"> - Yellow Led ON = Power Supply <p>RX Unit</p> <ul style="list-style-type: none"> - Green Led ON = Curtain free - Red Led ON = Curtain occluded - Green and Red Led ON = Overload / Short circuit
Working Temperature	0 / +50 °C
TX - RX Connection	Nr. 2 Connectors M12 5 poles female to wire driving included in the supply
Synchronism	Optical
Housing	Polished Aluminium BLU RAL5015
Housing Section	22 x 36 mm
Protection Degree	IP54 (option IP67 - IP69K)
Fixing	Through back screws sliding on the length 4MA x 16

PRECAUTIONS

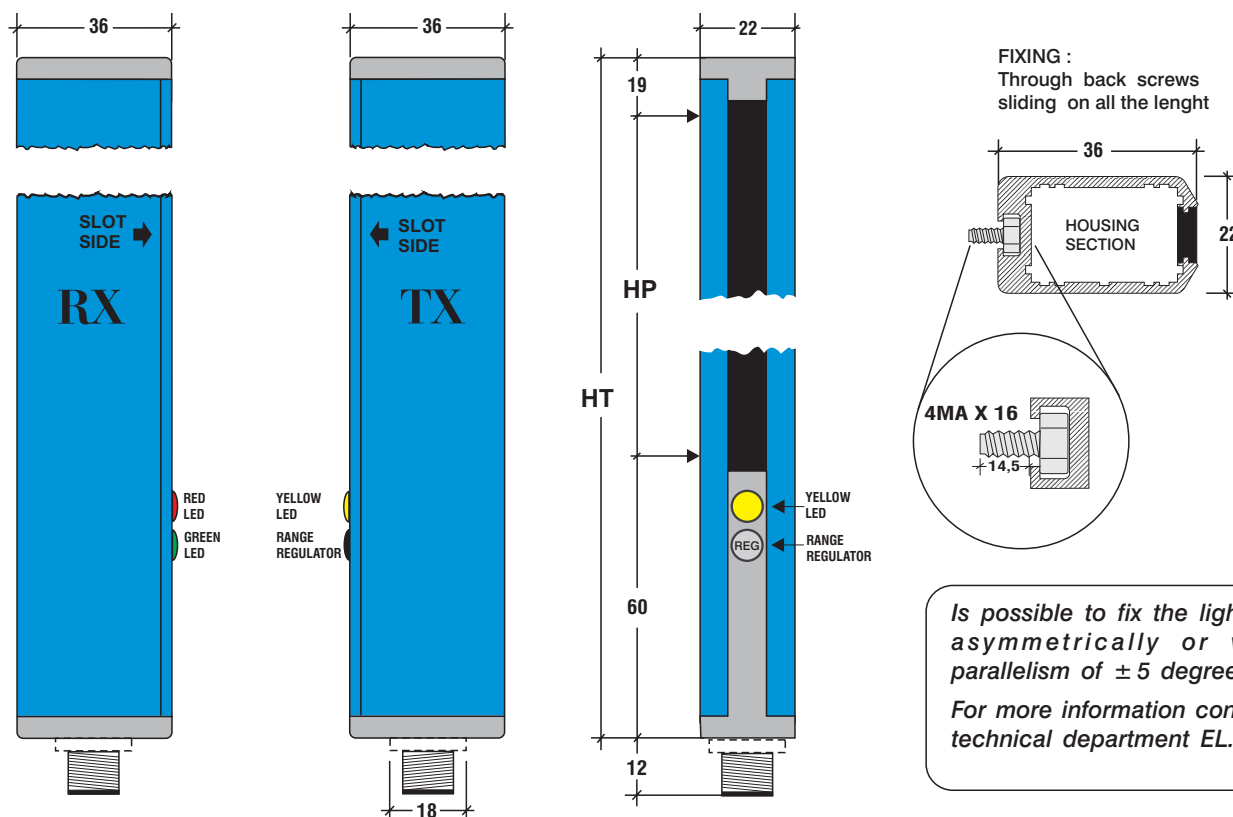
- Avoid installations near sources of light very intense, especially in proximity of the receiving unit.
- The presence of strong electromagnetic interference could influence the correct functioning of the device.
- Reflective surfaces placed in the proximity of the device can introduce passive reflections that can affect the detection of the object inside the controlled area.
- If you need to install more devices should be avoided adjacent to the emitter of a device is interfering with the receiver of another device.

CONNECTION ELECTRIC DIAGRAM


- | | |
|----------|------------------|
| 1) Brown | = + 24Vdc |
| 2) White | = PNP DARK ON |
| 3) Blue | = — |
| 4) Black | = PNP LIGHT ON |
| 5) Grey | = OPERATING MODE |
- { Not connected : FAST
 Connected to +24Vdc : ULTRA FAST



- | | |
|----------|-----------|
| 1) Brown | = + 24Vdc |
| 2) White | = N.C. |
| 3) Blue | = — |
| 4) Black | = N.C. |
| 5) Grey | = N.C. |



MOUNTING - ALIGNMENT

Install the two units TX (transmitter) and RX (receiver) to the operating distance of work indicated on the data written on the labels so that they are as parallel as possible.

RECALIBRATION

In case you need to change the working distance between the TX and RX perform the following procedure : turn the trimmer cap under the "Range Regulator" counter-clockwise until the full scale and give power to both units simultaneously TX and RX.

On the TX light will be yellow and the red light on the RX.

Turn the trimmer slowly clockwise until it causes the drive RX switching the lamp from RED to GREEN.

This operation must be done at least twice.

The final position of the trimmer will be the closest point to the stable release of the switching GREEN-RED of the lights.

We recommend that you perform this procedure after selecting the operating mode FAST or ULTRAFAST or after any change of operating mode.

HOW TO ORDER

Product Code

Distances

FLY-P016-1164 - - - -

Working distance in mm.

To be indicated on the order. The light curtain will be supplied pre calibrated for **an immediate adjustment**

Example : FLY-P016-1164 - 1000



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