

Optical Bracket Photoelectric Sensors





TEACH-IN OPTICAL BRACKETS 12 ÷ 30 V DC PROGRAMMABLE OUTPUT

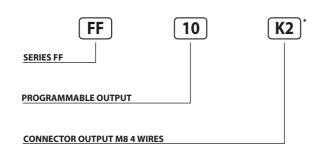
- 3 mm gap X 60 mm deep for flexible installation
- Teach-in standard or sensitive calibration automatically sets sensitivity values
- Fast response time: 10 K Hz switching frequency
- Remote Teach-in allows fast target changeover by the host
- · Applications include: Translucent material Double detection Edge detection







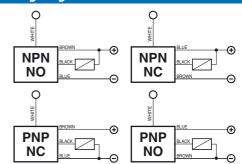
Identification code



CLEF	3 mm		
EMISSION	Infrared (875 ηm)		
NOMINAL VOLTAGE	12 ÷ 30V DC (-15 /+10%)		
RESIDUAL RIPPLE	≤ 10%		
OUTPUT	Programmable NPN or PNP		
MAX OUTPUT CURRENT	100 mA		
ABSORPTION AT 30 V DC	≤ 40 mA		
VOLTAGE DROP (Sensor ON)	\leq 2 V (I = 100 mA)		
RED LED	Memorization - Standard teach-in		
GREEN LED	Object presence/absence - Thin teach-in		
SWITCHING FREQUENCY	10.000 Hz		
RESPONSE TIME	100 mS		
START UP DELAY	≤ 100 mS		
SHORT CIRCUIT PROTECTION	Present (self-resetting)		
ELECTRIC PROTECTIONS	Againts polarity reversal		
TEMPERATURE LIMITS	-10 ÷ +60°C		
LIGHT IMMUNITY	3.000 Lux		
PROTECTION DEGREE	IP 65		
CABLE SECTION	M8 4 wires connector		
HOUSING MATERIAL	Anodised aluminium		
WEIGHT (Approximatevy)	85 g		

Note: for a proper use see norms at pages 12, 13, 14, 15 and 16.

Wiring diagrams



Note: If the white wire is not used for external teach-in, connect it to ground.

Wiring diagrams with M8 connector (K)



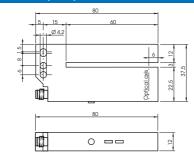
View of quadripole male connector.

CONTACTS CONFIGURATION

Output	Contacts numbers				
	1	2	3	4	
NPN/PNP NO	_	White	+	Out	
NPN/PNP NC	+	White	_	Out	

Note: Use only the female connector type K2FDV. If the contact n. 3 (white wire) is not used for external teach-in, connect it to ground.

Dimensions (mm)



Adjustment

STANDARD TEACH-IN (TO DETECT STANDARD TAGS)

STANDARD TEACH IN (TO DETECT STANDARD I						
PHOTOELECTRIC SENSOR POSITION						
WARNING : The photoelectric sensor teach-in must be by placing the photoelectric sensor on the tag trasli (not directly on the tag which has to be detected).						

oe executed

1) Set the optical bracket on the tag support. 2) Push once the button: the red led light will be blinking through 2 seconds.

3) Push again the adjustment button and keep it pushed till the definitive switching of the red led (memorization achieved).

Warning: if during the adjustment the red led and the green led are blinking at the same moment, it means that a short-circuit occurs at the output or that the tag support is too opaque

STATUS LED





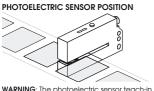


LED DI STATO

GREEN LED BLINKING THROUGH 2 SECONDS \bigcirc

RED LED ON

THIN TEACH-IN (TO DETECT TRASLUCIDE TAGS)



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WARNING: The photoelectric sensor teach-in must be executed	
by placing the photoelectric sensor on the tag traslucid support	
(not directly on the tag which has to be detected)	

1) Set the optical bracket on the tag support.

switching of the red led (memorization achieved)

2) Push twice the button: the green led light will be blinking through 2 seconds. 3) Push again the adjustment button and keep it pushed till the definitive

Warning: if during the adjustment the red led and the green led are blinking RED AND GREEN LEDS BLINKING at the same moment, it means that a short-circuit occurs at the output or that the tag support is too opaque.

The same teach-in mode achieved by pushing the button can be also obtained by connecting the white wire to the positive (external teach-in), following the same steps envisaged for teach-in through the button. For a correct installation see norms at pages 7, 8, 9 and 10