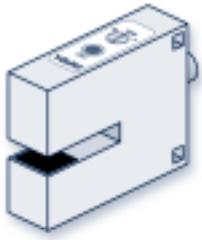


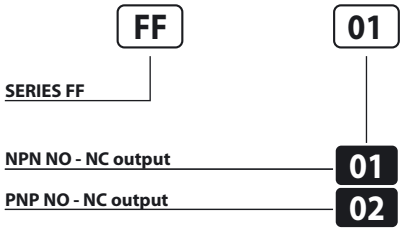
Optical Bracket Photoelectric Sensors

OPTICAL BRACKETS 12 ÷ 30 V DC NPN OR PNP NO - NC OUTPUT

- *5 mm wide X 29 mm deep slot*
- *9-turn sensitivity adjuster*
- *Operation LED indicator*
- *2 m integral cable*
- *Plastic housing*
- *Infrared emitter*

FF Series

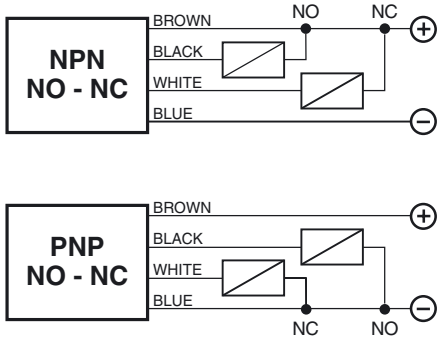
Identification code



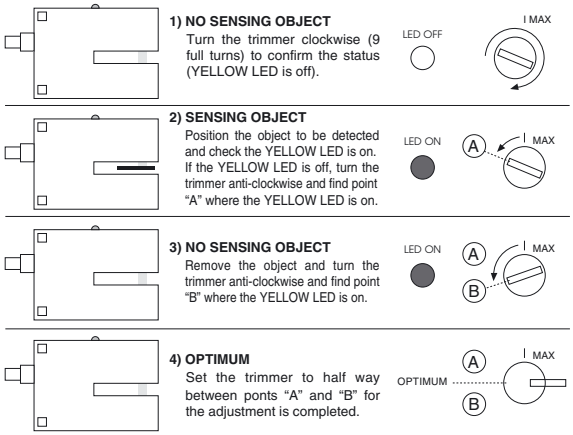
CLEF	**5 mm**
EMISSION	Infrared (875 ηm)
NOMINAL VOLTAGE	12 ÷ 30V DC (-15 /+10%)
RESIDUAL RIPPLE	≤ 10%
MAX. OUTPUT CURRENT	200 mA
ABSORPTION AT 30 V DC	30 mA
VOLTAGE DROP (Sensor ON)	< 1.5 V (I = 100 A)
OPERATION LED	Present
SENSITIVITY ADJUSTEMENT	Trimmer 9 turns
SWITCHING FREQUENCY	200 Hz
RESPONSE TIME	5 mS
START UP DELAY	200 mS
SHORT CIRCUIT PROTECTION	Present (self-resetting)
ELECTRIC PROTECTIONS	Againts polarity reversal - inductive loads
TEMPERATURE LIMITS	- 10 ÷ +60° C
LIGHT IMMUNITY	2.000 Lux (1)
PROTECTION DEGREE	IP 65
CABLE LENGTH	2 m
CABLE SECTION	4 x 0.25 mm²
HOUSING MATERIAL	Housing: nylon loaded with fiberglass - Lenses: methacrylate
WEIGHT (Approximatevy)	110 g

(1) Determined with halogen tungsten lamp 3000 °K.
Note: for a proper use see norms at pages 12, 13, 14, 15 and 16.

Wiring diagrams

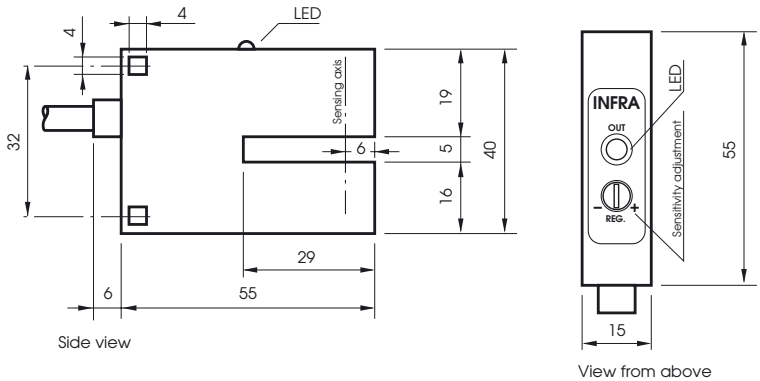


Adjustment



Note: for proper use see norms at pages 7, 8, 9 and 10.

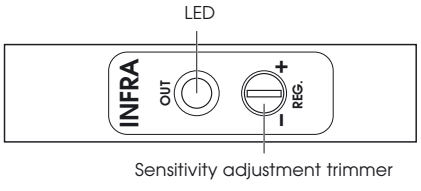
Dimensions (mm)



Sensitivity adjustment

1) SENSITIVITY INCREASE
Screw the trimmer towards right toward position "+"

2) SENSITIVITY DECREASE
Screw the trimmer towards left toward position "–"



Note: the trimmer needs 9 turns.