

Diffuse Ref. Photoelectric Sensors



PHOTOELECTRIC SENSORS IN SQUARE HOUSING 18 ÷ 230 V AC - DC REPLY OUTPUT

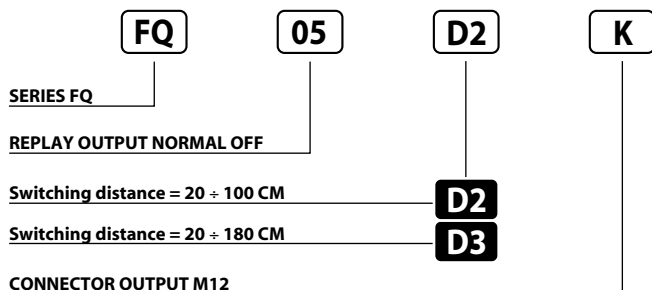
- Wide input voltage
- 3A relay SPDT
- Cable or M12 quick connect models
- Output and Supply indicators

FQ Series

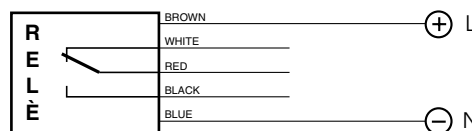
New



Identification code



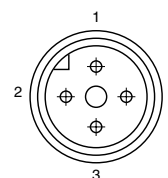
Wiring diagrams



Note: in case of inductive loads it is necessary to connect one diode in antiparallel at the edges of the load.

AVAILABLE	D2	D3
SWITCHING DISTANCE	20 ÷ 100 cm ⁽¹⁾	20 ÷ 180 cm ⁽²⁾
HYSTERESIS	10%	
EMISSION	Infrared (875 nm)	
NOMINAL VOLTAGE	18 ÷ 230V AC - DC (-15 / +10%)	
MAINS FREQUENCY	50 ÷ 60 Hz	
OUTPUT	Relay (10 x 10 ⁶ ops. min.)	
MAX. OUTPUT CURRENT	3A 30 V AC - 1A 220 V AC (90W, 360 VA)	
ABSORPTION	2.5 VA	
YELLOW LED	Output indicator	
GREEN LED	Supply indicator	
SENSITIVITY ADJUSTMENT	Trimmer 1 turn	
SWITCHING FREQUENCY	10 Hz	
RESPONSE TIME	100 mS	
START UP DELAY	≤ 300 mS	
TEMPERATURE LIMITS	-10 ÷ +60° C	
LIGHT IMMUNITY	> 10.000 Lux ⁽³⁾	
PROTECTION DEGREE	IP 65	
CABLE LENGTH	2 m	
CABLE SECTION	5 x 0.30 mm ²	
HOUSING MATERIAL	Housing: ABS - Lenses: methacrylate	
WEIGHT - cable output - (connector output)	- 180 g - (125 g)	

Connection with connector M12 (K)



View of quadripole male connector.

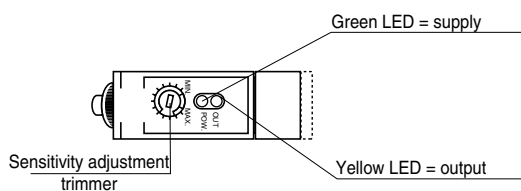
CONTACTS CONFIGURATION

Output	Contacts numbers			
	1	2	3	4
Relay	L	COM	N	NO

Note: Photoelectric sensor not suitable for use with 90° connectors.

Sensitivity adjustment

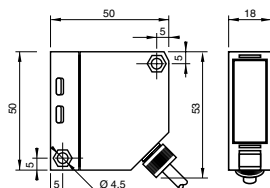
- 1) SENSITIVITY INCREASE**
Screw the trimmer towards right towards position "+"
- 2) SENSITIVITY DECREASE**
Screw the trimmer towards left towards position "-"



Note: the trimmer just needs one turn.

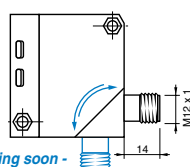
⁽¹⁾ Determined with a white mat paper (cm 10 x 10).
⁽²⁾ Determined with a white mat paper (cm 20 x 20).
⁽³⁾ Determined with halogen tungsten lamp 3000° C.
Note: for a proper use see norms at pages 7, 8, 9 and 10.

Dimensions (mm)



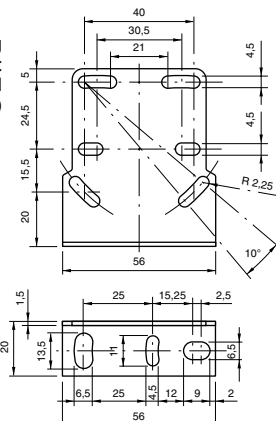
Configuration with cable

Configuration with connector K



Rotating connector - coming soon -

Mounting bracket (supplied accessory)



Characteristic curves

