Diffuse Ref. Photoelectric Sensors



FW Series

PH. SENSORS IN RECTANGULAR HOUSING 14 \div 230 V AC/DC WITH TIMER RELAY OUTPUT

D3

 $20 \div 180$ cm $^{(2)}$

- Wide input voltage
- Rectangular compact size Multi-function timer:
- Multi-function
 ON/OFF delay
- One shot-four functions
- 3A relay SPDT
- Conduit wiring terminal block

Identification code

AVAILABLE

TOLERANCE

HYSTERESIS

NOMINAL VOLTAGE

MAX OUTPUT CURRENT

SENSITIVITY ADJUSTEMENT

SWITCHING FREQUENCY

TIME REGULATION

RESPONSE TIME

START UP DELAY

LIGHT IMMUNITY

CONNECTIONS

CABLE GUIDE

TEMPERATURE LIMITS

PROTECTION DEGREE

HOUSING MATERIAL

WEIGHT (Approximately)

NET FREQUENCY

EMISSION

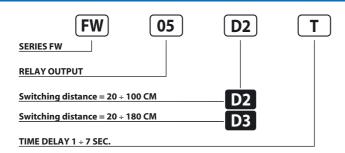
OUTPUT

ABSORPTION

YELLOW LED

GREENIED

NOMINAL SWITCHING DISTANCE (Sn)



D2

20 ÷ 100 cm (1)

+10/-10 %Sn

10%

Infrared (875 ηm)

14-230VAC / DC (-15 /+10%)

45 ÷ 60 Hz

3A 250VAC - 3A 30VDC

≤ 2W (2.5 VA)

Light on indicator

Supply indicator

Present

10 Hz

100 mS

≤ 300 mS

-10° ÷ +60°C

> 10.000 Lux (3)

IP 67

Screw

PG 13.5

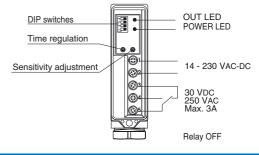
110 g

Housing: ABS - Lenses: methacrylate

 $0.1 \div 7 \text{ s} \pm 2 \text{ s}$ (only models with timer)

Relay (40 x 10⁶ mec. op. -5 x 10⁶ elect. op.)

Wiring diagrams



(UL) us

Timing diagrams

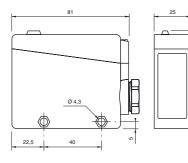
				1	
			Target presence		
			Fixed delay (T)	T .	→
ALL	MODELS				
NO.	FUNCTION	DIP SWITCHES		OUTPUT DIAGRAM	
1	Muting	<pre>///■ ON /// OFF 1 2 3 4</pre>	Not activated relay		
мо	DELS WITHOU	IT TIMER			
1	Normally ON	ON 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Normally activated relay		
2	Normally OFF	// ON //	Normally not activated relay		
мо	DELS WITH TI	MER			
1	Delay on operate	ON 0FF 1 2 3 4	Normally activated relay		
2		ON 0FF 1 2 3 4	Normally not activated relay		
3	Delay on release	ON 0FF 1 2 3 4	Normally activated relay		
4		ON 0FF 1 2 3 4	Normally not activated relay		
1	One shot leading edge	ON 0FF 1 2 3 4	Normally activated relay		
2		ON 0FF 1 2 3 4	Normally not activated relay		
3	One shot trailing edge	ON 0 0 0 0 0 0 0 0 0 0 0 0 0	Normally activated relay		
4		ON 0FF 1 2 3 4	Normally not activated relay		

$^{(1)}$ 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° K.

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

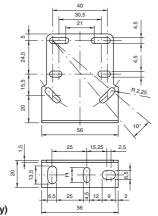
Dimensions (mm)



Photoelectric sensor

Mounting bracket (supplied accessory)

65 67,5



Characteristic curves

