

Retro Ref. Photoelectric Sensors

ELECTRONIC SENSORS



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

- Wide range World Wide Power Supply
- Rectangular compact size
- Multi-function timer
- ON/OFF delay
- One shot-four functions
- Conduit wiring terminal block

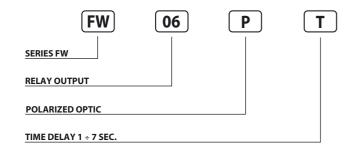
FW Series







Identification code

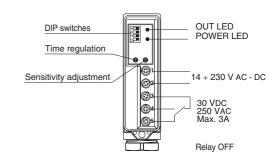


AVAILABLE	POLARIZED STANDARD	
NOMINAL SWITCHING DISTANCE (Sn)	9 m ⁽¹⁾	15 m ⁽¹⁾
TOLERANCE	+10/-10 %Sn	
HYSTERESIS	10%	
EMISSION	Red (660 ηm)	Infrared (875 ηm)
NOMINAL VOLTAGE	14 ÷ 230 V AC - DC (-15 /+10%)	
NET FREQUENCY	45 ÷ 60 Hz	
OUTPUT	Relay (40 x 10 ⁶ mec. op5 x 10 ⁶ elect. op.)	
MAX OUTPUT CURRENT	3A 250VAC - 3A 30VDC	
ABSORPTION	≤ 2W (2.5 VA)	
YELLOW LED	Light on indicator	
GREEN LED	Supply indicator	
SENSITIVITY ADJUSTEMENT	Trimmer 1 turn	
TIME REGULATION	$0.1 \div 7 \text{ s} \pm 2 \text{ s}$ (only models with timer)	
SWITCHING FREQUENCY	10 Hz	
RESPONSE TIME	100 mS	
START UP DELAY	≤ 300 mS	
TEMPERATURE LIMITS	-10° ÷ +60°C	
LIGHT IMMUNITY	> 10.000 Lux (2)	
PROTECTION DEGREE	IP 67	
CONNECTIONS	Screw	
CABLE GUIDE	PG 13.5	
HOUSING MATERIAL	Housing: ABS - Lenses: methacrylate	
WEIGHT (Approximately)	110 g	

⁽¹⁾ Determined with CT04S reflector.

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

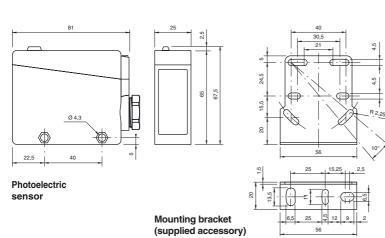
Wiring diagrams



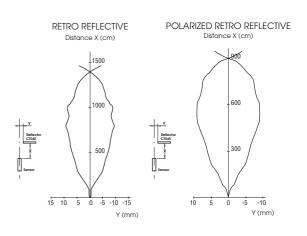
Timing diagrams Target presence Fixed delay (T) ALL MODELS NO. FUNCTION DIP SWITCHES OUTPUT DIAGRAM 1 Muting ON Not activated

1	Muting	1 2 3 4	relay		
MODELS WITHOUT TIMER					
1	Normally ON	// II ON OFF	Normally activated relay		
2	Normally OFF	ON OFF	Normally not activated relay		
MODELS WITH TIMER					
1	Delay on operate	0N 0FF	Normally activated relay		
2		0N 0FF 1 2 3 4	Normally not activated relay		
3	Delay on release	0N 0FF 1 2 3 4	Normally activated relay		
4		0N 0FF 1 2 3 4	Normally not activated relay		
1	One shot leading edge	0N OFF	Normally activated relay		
2		0N 0FF	Normally not activated relay		
3	One shot	0N OFF	Normally activated relay		
4	trailing edge	ON OFF	Normally not activated relay		

Dimensions (mm)



Characteristic curves



 $^{^{(2)}}$ Determined with halogen tungsten lamp 3000° K.