



- UL Standard certified (E-94173)
IP1N/IP1F
- Compact size
- IP1F: Integrated multifunctional timer (0.1-10 s variable, on-delay/off-delay/one-shot)

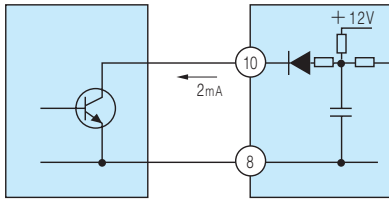
Rating/Performance/Specification (IP series)

Model	IP1F	IMP1F	IP1N
Power supply	AC100V · 110 / 200V · 220V ±10% 50 / 60Hz		
Power consumption	5 VA max.		
Operation mode	ON-OFF	Timer switching (On-delay, off-delay, one-shot,) timer disabled Delay time: 0.1-10 s	ON-OFF
Output mode	Relay contact output 1c Rating : 5A (250VAC) resistance load Voltage output Rating : output impedance 1 KΩ (12VDC)		
Power supplied to sensor	12VDC ±5% 100mA max. (150 mA max. for IMP1F)		
External gating	Contact input/voltage input [H: 6V min., L: 1V min.]		
Response time	Sensor input: relay contact output 25 ms max. Voltage output 0.5 ms max. External gating input: Voltage output 5 ms max.		
Indicator	P.L. : power indicator (green LED) OP.L : power indicator (red LED)		
Volume (VR)	TIME: Delay time adjustment provided (0.1-10 s variable)		—
Switch (SW)	Operation mode selector switch ON.D On-delay OF.D Off-delay OST One-shot Input operation reverse switch: INVERTING : input reversed NORMAL : same as input Timer enabled/disabled switch TIMER : timer enabled NORMAL : timer disabled	Input operation reverse switch INVERTING : input reversed NORMAL : same as input	
Case material	Polycarbonate		
Connection	Plug-in terminal block (3.5 mm screws)		
Mass	400 g max.		
Notes	Terminal block (TB14) provided		

Environmental Specification

Ambient temperature	-10 - +55 °C (non-freezing)
Ambient humidity	35-85%RH (non-condensing)
Protective structure	IP20
Vibration	10-55 Hz / 1.5 mm amplitude / 2 hours each in 3 direction
Shock	1000 m/s ² / 2 times each in 3 directions
Dielectric withstanding	1,500 VAC for 1 minute
Insulation resistance	500 VDC, 20 MΩ or higher

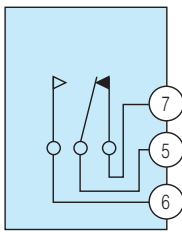
Input Circuit



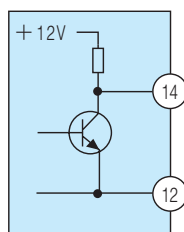
- Setting the input operation reverse switch to NORMAL activates the output relay when the input signal is activated (ON). Setting the switch to INVERTING activates the relay when the input signals is deactivated (OFF).

Output Circuit

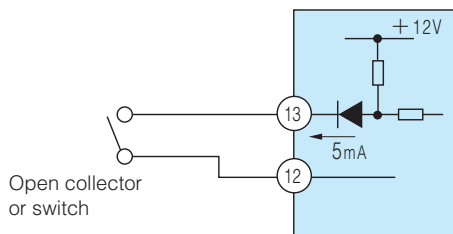
Relay output



Voltage output

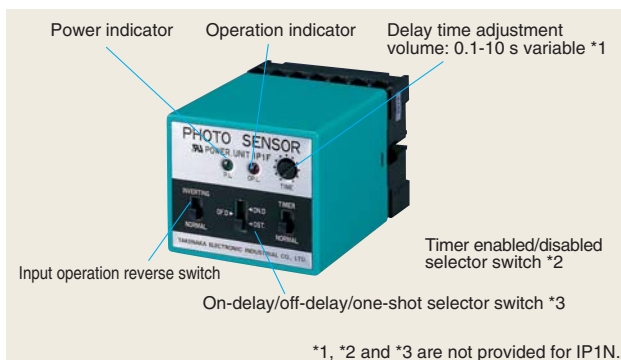


External Gating

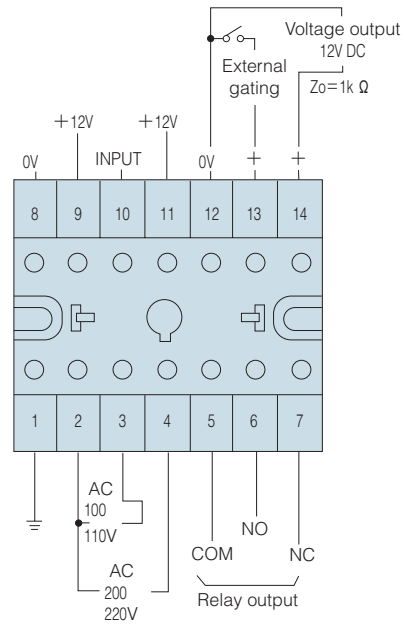


- Closing (12) and (13) disables the internal circuit.
- When not using external gating, leave them open.

Panel Description



Connection



Terminals (12) and (13) compose an external gating circuit. The internal circuit functions when they are open.

Dimensions (in mm)

