

Photoelectric Sensors

Compact-OS80



CE

Descriptions:

Plastic housing, wide voltage input, terminal connection

Features:

- Various output mode
- Reverse polarity, surge, overload protection
- IP67 protection degree

Type

| Detection mode | Type | Distance | Beam | Frequency | Output | Switch mode | Connection | Wiring |
|--|-------------------------|-------------------|----------|-----------|--------|------------------|------------|--------|
| Opposed | OS80-S6Q1(emitter) | — | Infrared | — | — | — | Terminal | 1 |
| | OS80-EVN6Q1(receiver) | 20m | — | 100Hz | NPN | Light on/Dark on | Terminal | 3 |
| | OS80-S6Q1(emitter) | — | Infrared | — | — | — | Terminal | 1 |
| | OS80-EVP6Q1(receiver) | 20m | — | 100Hz | PNP | Light on/Dark on | Terminal | 4 |
| | OS80-S306Q1(emitter) | — | Infrared | — | — | — | Terminal | 1 |
| | OS80-E30VN6Q1(receiver) | 30m | — | 100Hz | NPN | Light on/Dark on | Terminal | 3 |
| | OS80-S306Q1(emitter) | — | Infrared | — | — | — | Terminal | 1 |
| | OS80-E30VP6Q1(receiver) | 30m | — | 100Hz | PNP | Light on/Dark on | Terminal | 4 |
| | OS80-S5Q1(emitter) | — | Infrared | — | — | — | Terminal | 2 |
| | OS80-EVR5Q1(receiver) | 20m | — | 50Hz | Relay | NO+NC | Terminal | 7 |
| | OS80-S305Q1(emitter) | — | Infrared | — | — | — | Terminal | 2 |
| | OS80-E30VR5Q1(receiver) | 30m | — | 50Hz | Relay | NO+NC | Terminal | 7 |
| Retro-reflective | OS80-RVN6Q1 | 5m ¹⁾ | Infrared | 100Hz | NPN | Light on/Dark on | Terminal | 3 |
| | OS80-RVP6Q1 | 5m ¹⁾ | Infrared | 100Hz | PNP | Light on/Dark on | Terminal | 4 |
| | OS80-RVR5Q1 | 5m ¹⁾ | Infrared | 50Hz | Relay | NO+NC | Terminal | 7 |
| Polarized Retro-reflective | OS80-RPVN6Q1 | 12m ¹⁾ | Infrared | 100Hz | NPN | Light on/Dark on | Terminal | 3 |
| | OS80-RPVP6Q1 | 12m ¹⁾ | Infrared | 100Hz | PNP | Light on/Dark on | Terminal | 4 |
| | OS80-RPVR5Q1 | 12m ¹⁾ | Infrared | 50Hz | Relay | NO+NC | Terminal | 7 |
| 1)corresponding reflector RB80 to the detection distance | | | | | | | | |
| Diffused | OS80-K800VN6Q1 | 800 (adjustable) | Infrared | 100Hz | NPN | Light on/Dark on | Terminal | 5 |
| | OS80-K800VP6Q1 | 800 (adjustable) | Infrared | 100Hz | PNP | Light on/Dark on | Terminal | 6 |
| | OS80-K800VR5Q1 | 800 (adjustable) | Infrared | 50Hz | Relay | NO+NC | Terminal | 7 |
| | OS80-K2000VN6Q1 | 2000(adjustable) | Infrared | 100Hz | NPN | Light on/Dark on | Terminal | 5 |
| | OS80-K2000VP6Q1 | 2000(adjustable) | Infrared | 100Hz | PNP | Light on/Dark on | Terminal | 6 |
| | OS80-K2000VR5Q1 | 2000(adjustable) | Infrared | 50Hz | Relay | NO+NC | Terminal | 7 |

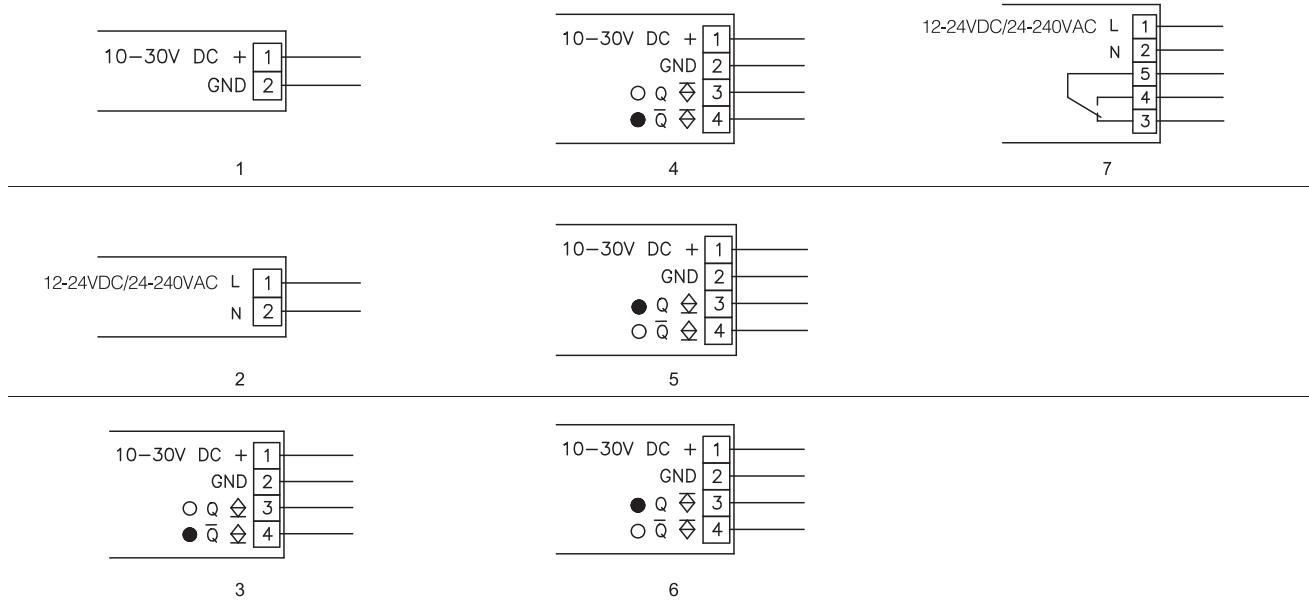
Photoelectric Sensors

Compact-OS80

Technical data

| | |
|-----------------------|--|
| Operating voltage | 10...30VDC; 12...240VDC/24...240VAC |
| Response time | Max, 3ms; Max, 30ms (wide voltage) |
| Repetitive error | $\leq 3\%$ |
| Load current | $\leq 200\text{mA}$; $\leq 3\text{A}$ (wide voltage) |
| Protective Circuit | Surge, reverse polarity, short circuit; Surge (wide voltage) |
| Yellow LED | Yellow LED |
| Ambient temperature | -25...55°C |
| Ambient humidity | 35...85RH |
| Voltage withstand | 1000V/AC 50/60Hz 60s |
| Insulation resistance | $\geq 50\text{M}\Omega$ (500VDC) |
| Shock resistance | Complex amplitude 2 hours for X,Y,Z direction respectively |
| Impact resistance | 500m/s (50G) 3 times for X,Y,Z direction respectively |
| Protection degree | IP67 |
| Housing | PC/ABS |

Electrical connection



Dimensions

