

Photoelectric Sensors

Compact-OS80



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

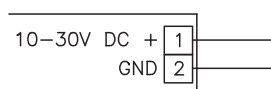
Photoelectric Sensors

Compact-OS80

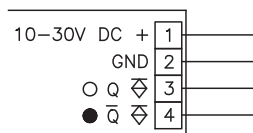
Technical data

Operating voltage	10...30VDC; 12...240VDC/24...240VAC
Response time	Max, 3ms; Max, 30ms (wide voltage)
Repetitive error	≤3%
Load current	≤200mA; ≤3A (wide voltage)
Protective Circuit	Surge, reverse polarity, short circui; 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	≥50MΩ(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

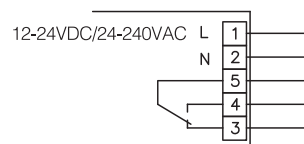
Electrical connection



1



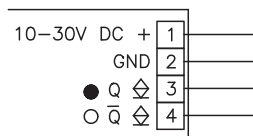
4



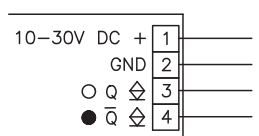
7



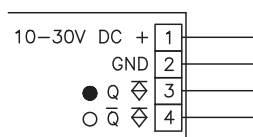
2



5



3



6

Dimensions

