

# Photoelectric Sensors

## Barrel-OP18



### Descriptions:

Plastic housing, barrel M18, IP67

### Features:

- Sensitivity adjustable
- NO+NC output
- Advanced trigger input



### Type

Detection mode	Type	Distance	Beam	Frequency	Output	Switch mode	Connection	Wiring
Opposed	OP18-S6(emitter)	—	Infrared	—	—	—	2m cable	1
	OP18-EVP6(receiver)	20m	—	1000Hz	PNP	Light on /Dark on	2m cable	3
	OP18-EVN6(emitter)	20m	—	1000Hz	NPN	Light on /Dark on	2m cable	4
	OP18-S6Q(receiver)	—	Infrared	—	—	—	M12 connector	2
	OP18-EVP6Q(emitter)	20m	—	1000Hz	PNP	Light on /Dark on	M12 connector	5
	OP18-EVN6Q(receiver)	20m	—	1000Hz	NPN	Light on /Dark on	M12 connector	6
Reflective	OP18-RVP6	3m <sup>1)</sup>	Infrared	1000Hz	PNP	Light on /Dark on	2m cable	3
	OP18-RVN6	3m <sup>1)</sup>	Infrared	1000Hz	NPN	Light on /Dark on	2m cable	4
	OP18-RVP6Q	3m <sup>1)</sup>	Infrared	1000Hz	PNP	Light on /Dark on	M12 connector	5
	OP18-RVN6Q	3m <sup>1)</sup>	Infrared	1000Hz	NPN	Light on /Dark on	M12 connector	6
Polarized retro-reflective	OP18-RPVP6	3m <sup>1)</sup>	Red	1000Hz	PNP	Light on /Dark on	2m cable	3
	OP18-RPVN6	3m <sup>1)</sup>	Red	1000Hz	NPN	Light on /Dark on	2m cable	4
	OP18-RPVP6Q	3m <sup>1)</sup>	Red	1000Hz	PNP	Light on /Dark on	M12 connector	5
	OP18-RPVN6Q	3m <sup>1)</sup>	Red	1000Hz	NPN	Light on /Dark on	M12 connector	6
1)reflector RB30×50								
Diffused	OP18-K100VN6	100mm	Infrared	1000Hz	NPN	Light on /Dark on	2m cable	4
	OP18-K100VP6Q	100mm	Infrared	1000Hz	PNP	Light on /Dark on	M12 connector	5
	OP18-K200VP6	200mm	Infrared	1000Hz	PNP	Light on /Dark on	2m cable	3
	OP18-K200VN6	200mm	Infrared	1000Hz	NPN	Light on /Dark on	2m cable	4
	OP18-K200VP6Q	200mm	Infrared	1000Hz	PNP	Light on /Dark on	M12 connector	5
	OP18-K200VN6Q	200mm	Infrared	1000Hz	NPN	Light on /Dark on	M12 connector	6
	OP18-K400VP6	400mm	Infrared	1000Hz	PNP	Light on /Dark on	2m cable	3
	OP18-K400VN6	400mm	Infrared	1000Hz	NPN	Light on /Dark on	2m cable	4
	OP18-K400VP6Q	400mm	Infrared	1000Hz	PNP	Light on /Dark on	M12 connector	5
	OP18-K400VN6Q	400mm	Infrared	1000Hz	NPN	Light on /Dark on	M12 connector	6
OP18-K550VP6	OP18-K550VN6	550mm	Infrared	1000Hz	PNP	Light on /Dark on	2m cable	3
	OP18-K550VP6Q	550mm	Infrared	1000Hz	PNP	Light on /Dark on	M12 connector	5
	OP18-K550VN6Q	550mm	Infrared	1000Hz	NPN	Light on /Dark on	M12 connector	6

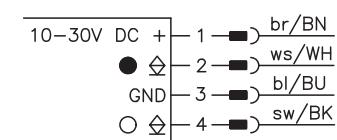
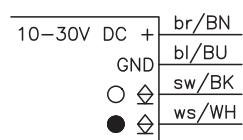
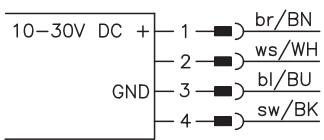
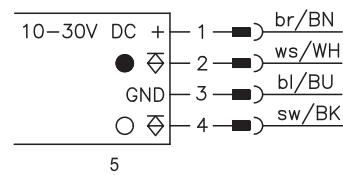
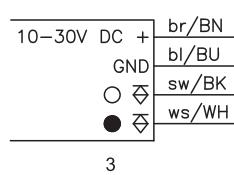
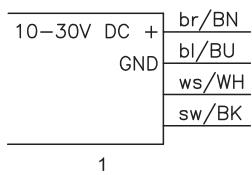
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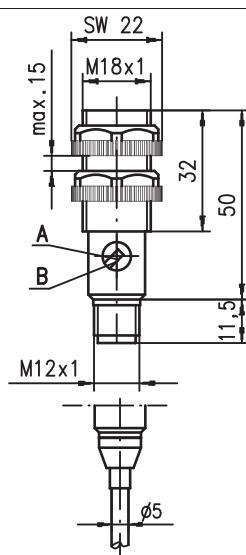
### Technical data

Operating voltage	10...30VDC
Ripple voltage	≤10% of UB
No-load current	opposed: ≤25mA; others: ≤15mA
Output current	Max100mA
Sensitivity	Adjustable
Power on delay	≤30ms
Yellow LED	switch output
Yellow LED flashing	No signal redundancy
Housing	PA12
Optical face	PA12
Weight	20g/90g
Ambient temperature	-40...70°C
Storage ambient temperature	-25...65°C
Protective circuit	Reverse polarity ,short circuit ,interference suppression
Protection degree	IP67

### Electrical connection



### Dimensions



**A** LED  
**B** Sensitivity adjustment