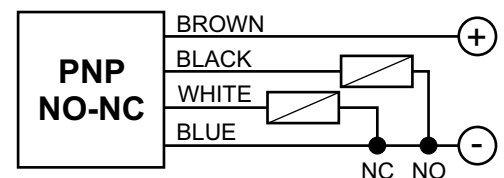
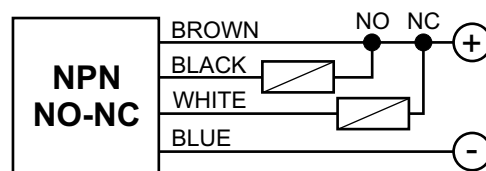


PHOTOELECTRIC SENSORS IP67

Type	Diffuse		Polarized Reflective	
M18 Flat Integrated Output LED				
Specifications				
Sensing Distance	0... 400mm	0... 320mm	0... 2m	0... 1,6m
Supply Voltage	10... 30 VDC	10... 30 VDC	10... 30 VDC	10... 30 VDC
Ambient Light	10 000 lux	10 000 lux	10 000 lux	10 000 lux
Setting	Sensitivity Trimmer	Sensitivity Trimmer	Sensitivity Trimmer	Sensitivity Trimmer
Output	NO NC	NO NC	NO NC	NO NC
Output Current	100mA	100mA	100mA	100mA
Current Consumption	< 30mA	< 30mA	< 30mA	< 30mA
Voltage Drop	< 2V @100mA	< 2V @100mA	< 2V @100mA	< 2V @100mA
Response Time	< 1ms	< 1ms	< 1ms	< 1ms
Switching Freq.	1000 Hz	1000 Hz	1000 Hz	1000 Hz
Operation Mode	Dark or Light	Dark or Light	Dark or Light	Dark or Light
Housing Material	ABS, Lens PMMA	ABS, Lens PMMA	ABS, Lens PMMA	ABS, Lens PMMA
Operating Temp.	-25...55 °C	-25...55 °C	-25...55 °C	-25...55 °C
Mounting Bracket	Included	Included	Included	Included
Dimensions				
Ordering Codes				
PNP, NO+NC Cable	OD18FA-D04PSP/2P	OD18FR-D03PSP/2P	OD18FA-P2PSP/2P	OD18FR-P2PSP/2P
NPN, NO+NC Cable	OD18FA-D04NSP/2P	OD18FR-D03NSP/2P	OD18FA-P20NSP/2P	OD18FR-P2PSP/2P
PNP, NO+NC Plug-in	OD18FA-D04PSP/M12	OD18FR-D03PSP/M12	OD18FA-P2PSP/M12	OD18FR-P2PSP/M12
NPN, NO+NC Plug-in	OD18FA-D04NSP/M12	OD18FR-D03NSP/M12	OD18FA-P20NSP/M12	OD18FR-P16NSP/M12

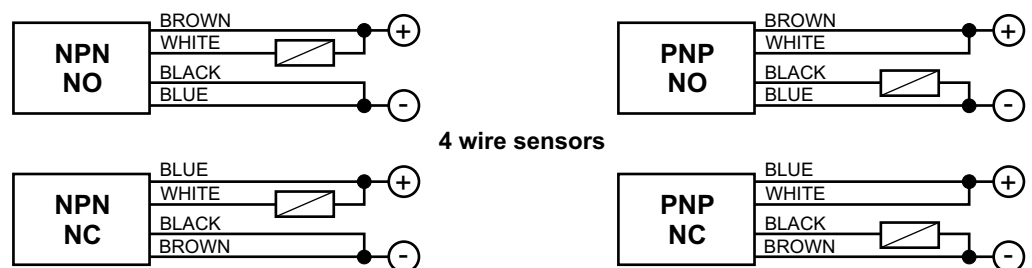
Wiring Diagrams



PHOTOELECTRIC SENSORS 50mm x 50mm IP65



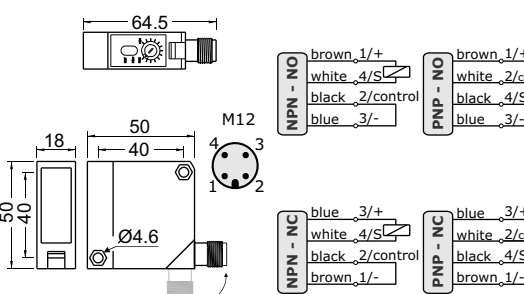
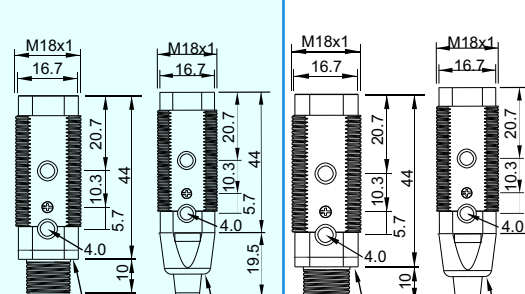
Type	Diffuse		Polarized Reflective	
Cubic Series Intergrated Output LED				
Specifications				
Sensing Distance	300mm...2m	300mm...2m	0... 5.5m	0... 5.5m
Supply Voltage	10... 30 VDC	24...240VDC / VAC	10... 30 VDC	24...240VDC / VAC
Emission	Infra Red LED 800nm	Infra Red LED 800nm	Infra Red LED 800nm	Infra Red LED 800nm
Setting	Sensitivity Trimmer	Sensitivity Trimmer	Sensitivity Trimmer	Sensitivity Trimmer
Output	PNP, NPN, NO, NC Programmable	Relay, SPDT NO+NC	PNP, NPN, NO, NC Programmable	Relay, SPDT NO+NC
Output Current	200mA	1A / 230 VAC	200mA	1A / 230 VAC
Current Consumption	< 37mA	<2.2W	< 37mA	<2.2W
Voltage Drop	< 2V@ 200mA	-	< 2V@ 200mA	-
Response Time	< 1ms	< 25ms	< 1ms	< 25ms
Switching Freq.	500 Hz	10 Hz	500 Hz	10 Hz
Operation Mode	Dark or Light	Dark or Light	Dark or Light	Dark or Light
Ingress Protection	IP65	IP65	IP65	IP65
Housing Material	ABS, Lens PMMA	ABS, Lens PMMA	ABS, Lens PMMA	ABS, Lens PMMA
Operating Temp.	-25...55 °C	-25...55 °C	-25...55 °C	-25...55 °C
Mounting Bracket	Included	Included	Included	Included
Dimensions				
Ordering Codes				
PNP, NPN, NO, NC, Cable Programmable	OD50-D2PNCO/2P		OD50-P5PNCO/2P	
PNP, NPN, NO, NC, Plug Programmable	OD50-D2PNCO/M12		OD50-P5PNCO/M12	
Relay NC+NO, Cable		OD50-D2ACO/2P		OD50-P5ACO/2P
Relay NO, Plug		OD50-D2AO/M12		OD50-P5AO/M12
Relay NC, Plug		OD50-D2AC/M12		OD50-P5AC/M12

Wiring Diagrams



For sensor cables, see page 30

PHOTOELECTRIC SENSORS

Type	Through Beam Cubic 50x50		Through Beam M18	
Cubic Series Integrated Output LED	 Relay Output			
	IP65	IP65	IP67	IP67
Sensing Distance	18m	18m	12m	12m
Supply Voltage	10... 30 VDC	24...240VDC / VAC	10... 30 VDC	10... 30 VDC
Emission	Infra Red LED 800nm	Infra Red LED 800nm	Infra Red LED 800nm	Infra Red LED 800nm
Setting	Sensitivity Trimmer	Sensitivity Trimmer	Sensitivity Trimmer	Sensitivity Trimmer
Output	PNP, NPN, NO, NC Programmable	Relay, SPDT NO+NC	PNP, NPN, NO, NC	NO NC
Output Current	200mA	1A / 230 VAC	100mA	100mA
Current Consumption	< 37mA	< 2.2W	< 30mA	<30 mA
Voltage Drop	< 2V@ 200mA	-	< 2V@ 100mA	< 2V@ 100mA
Response Time	< 1ms	< 25ms	< 1ms	< 1ms
Switching Freq.	500 Hz	10 Hz	1000 Hz	1000 Hz
Operation Mode	Dark or Light	Dark or Light	Dark or Light	Dark or Light
Ingress Protection	IP65	IP65	IP67	IP67
Housing Material	ABS, Lens PMMA	ABS, Lens PMMA	ABS, Lens PMMA	ABS, Lens PMMA
Operating Temp.	-25...55°C	-25...55°C	-25...55°C	-25...55°C
Mounting Bracket	Included	Included	Included	Included
Dimensions				
Ordering Codes				
PNP, NPN, NO, NC, Plug Transmitter	OD50-T18D/M12	OD50-T18A/M12		
PNP, NPN, NO, NC, Plug Programmable Receiver	OD50-R18PNCO/M12			
PNP, NO + NC, Plug			OD18FA-R12PSP/M12 *	OD18FA-R95PSP/M12 *
NPN, NO + NC, Plug			OD18FA-R12NSP/M12 *	OD18FA-R95NSP/M12 *
Transmitter			OD18FA-T12DT/M12 *	OD18FA-T95DT/M12 *
Relay NO, Plug		OD50-R18AO/M12		
Relay NC, Plug		OD50-R18AC/M12		

* For Plug type change M12 to 2P e.g. OD18FA-R95PSP/2P

For sensor cables, see page 30