

M18 cylindrical type Photoelectric sensor DS-M series

Product characteristics

- Proximity sensor appearance, threaded column shape, amplifier built-in photoelectric sensor.
- Easy to set up and install. The waterproof shell is more sturdy and reliable.
- IP67 protection level.
- Strong resistance to light interference.

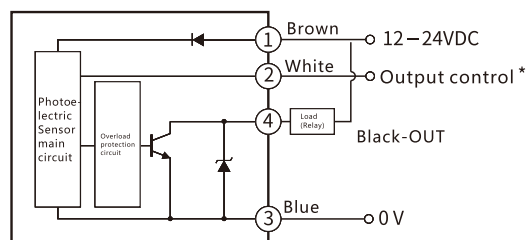


Ratings and Specifications

Model		Diffuse-reflective		Through-beam
Output	NPN	DS-MD11	DS-MD12	DS-MT11
	PNP	DS-MD11P	DS-MD12P	DS-MT11P
Sensing distance		100mm	300mm	15m
Light source		Infrared LED		
Response time		1.5ms Max		
Standard test object		10×10cm White paper	20×20cm White paper	Opaque: 20-mm dia. min.
Power supply voltage		DC12~24V±10%		
Current consumption		25mA		45mA Max Emitter: 25 mA , Receiver: 20 mA
Control output		Maximum 100mA (maximum 30VDC), residual voltage: maximum 1V		
Ambient illumination		白炽灯：最大5000lux，日光：最大20000lux		
Ambient temperature range		Incandescent lamp: 5000lx.max., daylight: 20000lx.max.		
Ambient humidity range		35 to 85%, no condensation		
Connection method		φ 3.7×2M/3Cores		
Insulation resistance		20MΩ Min.500DC		
Dielectric strength		1000VAC for 1 minute		
Degree of protection		IP66		
Case Material		Metal case: brass nickel plating/plastic Case: PBT/PC, Lens: PMMA		

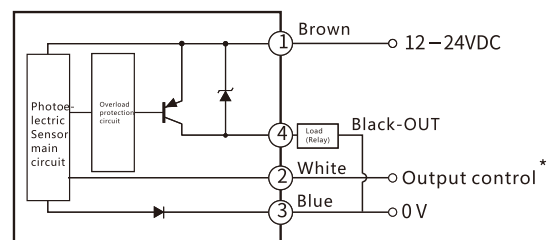
Output circuit

NPN



* (DARK-ON → 12 ~ 24VDC
LIGHT-ON → 0V)

PNP



* (DARK-ON → 12 ~ 24VDC
LIGHT-ON → 0V)

Dimensions

