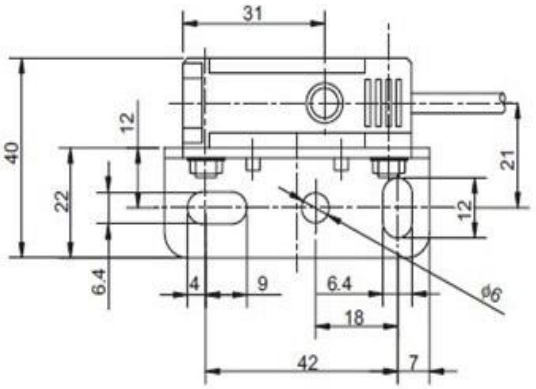
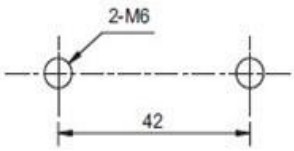
E3JK-R4M1/2 E3JK-DS30M1/2Photoelectric Switch DC24V AC220V 24V-220V Diffuse Reflection Infrared Switch Diffuse Reflective Sensor

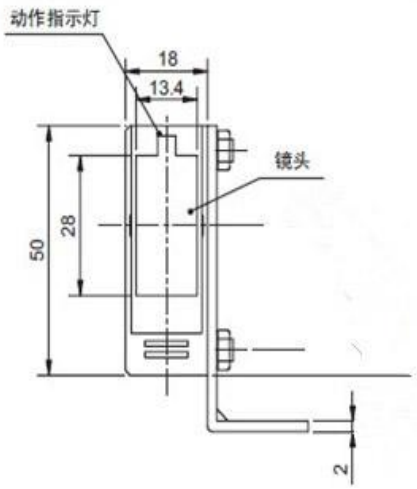
The parameters

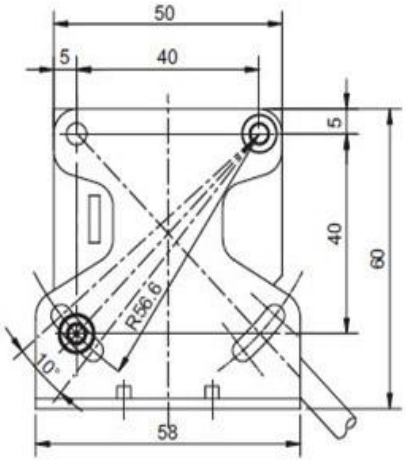
параметр

Size:









E3JM/E3JK

Testing way	Shape	Connection method	Detection distance	Mode of action	Output form	Model
Opposite type (projector + receiver)*1		Lead out type (2m)	5m	Into the light ON	Relay	E3JK-5M1-N 2M Projector E3JK-5L-N 2M Receiver E3JK-5DM1-N 2M
				When the window ON		E3JK-5M2-N 2M Projector E3JK-5L-N 2M Receiver E3JK-5DM2-N 2M
				Into the light ON And there are When the window ON	DC no contact	E3JK-5S3-N 2M Projector E3JK-5L-N 2M Receiver E3JK-5DS3-N 2M
Regressive reflex type (with M.S.R function)			2.5m (3m) *2	Into the light ON	Relay	E3JK-R2M1 2M
				When the window ON		E3JK-R2M2 2M
				Into the light ON And there are When the window ON	DC no contact	E3JK-R2S3 2M

				When the window ON		
Regressive reflex type (No M.S.R function)	(E39 - R1 attached)		*2 4m (5m)	Into the light ON	Relay	E3JK-R4M1 2M
				When the window ON		E3JK-R4M2 2M
				Into the light ON And there are When the window ON	DC no contact	E3JK-R4S3 2M
Diffuse reflection type			300mm	Into the light ON	Relay	E3JK-DS30M1 2M
				When the window ON		E3JK-DS30M2 2M
				Into the light ON And there are When the window ON	DC no contact	E3JK-DS30S3 2M

Note: UL standard products have a "-US" at the end of the model number. Instead of" -N ", the contra-JM E3JM has "-US".(example: E3JM-10M4-US) The contra-JM E3JK has" -N "at the end and" -US" at the end. E3JK-5M1-N-US 2M) without fastening nut, washer, rubber bushing.

Change point: E3JM→ shape of catheter opening

The DC contactless type of E3JK is UL uncertified.

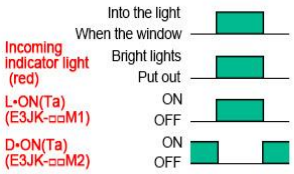
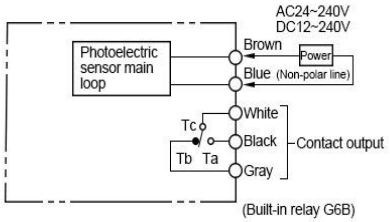
*1.The standard stock number of the counterpart type is the value of the complete set of emitter and receiver.

*2.() is the detection distance when using E39-R2 reflector board.

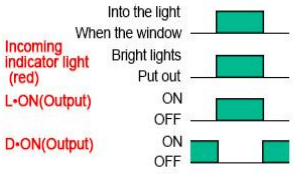
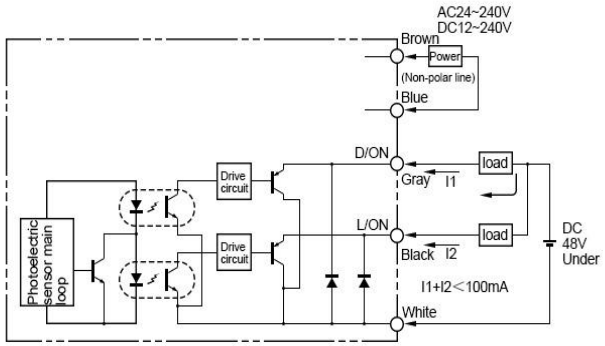
Testing way		Correlation type		Regressive reflex type (with M.S.R. function)		Regressive reflex type (No M.S.R function)		Diffuse reflection type	
Project	Model	E3JK-5M□-N	E3JK-5S3-N	E3JK-R2M□	E3JK-R2S3	E3JK-R4M□	E3JK-R4S3	E3JK-DS30M□	E3JK-DS30S3
Detection distance		5m		2.5m (when using E39-R1)		4m (when using E39-R1)		300mm (White drawing paper 100×100mm)	
Standard detection object		Φ14.8mm or more opaque objects		Φ75mm or more opaque objects				—	
Should be sent		—						Less than 20% of the detection distance	
Pointing to the Angle		Emitter and receiver: 3~20° each		1~5°				—	
Light source (Luminous wavelength)		Infrared light-emitting diode (950nm)		Red light-emitting diode (660nm)				Infrared light-emitting diode (950nm)	
Power supply voltage		DC12~240V±10% fluctuation (P-P) below 10%, AC24~240V±10% 50/60Hz							
Power consumption	DC	Below 3W (emitter below 1.5W, receiver below 1.5W)		Under 2W					
	AC	Below 3W (emitter below 1.5W, receiver below 1.5W)		Under 2W					
Control the output		Relay output: 1C contact AC250V 3A(cosφ=1) below, DC5V10mA above	DC SSR Negative public DC48V Under 100 ma Leakage current below 0.1mA With load moment protection function	Relay output: 1C contact AC250V 3A(cosφ=1) below, DC5V10mA above	DC SSR Negative public DC48V Under 100 ma Leakage current below 0.1mA With load moment protection function	Relay output: 1C contact AC250V 3A(cosφ=1) below, DC5V10mA above	DC SSR Negative public DC48V Under 100 ma Leakage current below 0.1mA With load moment protection function	Relay output: 1C contact AC250V 3A(cosφ=1) below, DC5V10mA above	DC SSR Negative public DC48V Under 100 ma Leakage current below 0.1mA With load moment protection function
Life (Relay output)	Mechanical	More than 50 million times (switching frequency 18000 times/hour)							
	Electrical	More than 100,000 times (switching frequency 1800 times/hour)							
Response time		Below 30ms	Below 10ms	Below 30ms	Below 5ms	Below 30ms	Below 5ms	Below 30ms	Below 5ms
Sensitivity adjustment		—						Single direction rotating knob	
Use ambient illumination		Surface illumination Incandescent lamp: below 30001X							
Ambient temperature range		Working :-25~+55℃, storage :-30~+70℃ (no icing, condensation)							
Ambient humidity range		Working time :45~85%RH, storage time :35~95%RH (no condensation)							
Insulation resistance		Above 20MΩ(DC500V megohm meter)							
Withstand voltage		AC1500V 50/60Hz 1min							
Vibration	Durable	10~55Hz double amplitude 1.5mm X, Y, Z direction 2h							
	Misoperation	10~55Hz double amplitude 1.5mm X, Y, Z direction 2h							
Impact	Durable	500m/s² 3 times in X, Y and Z directions							
	Misoperation	100m/s² 3 times in X, Y and Z directions	500m/s² 3 times in X, Y and Z directions	100m/s² 3 times in X, Y and Z directions	500m/s² 3 times in X, Y and Z directions	100m/s² 3 times in X, Y and Z directions	500m/s² 3 times in X, Y and Z directions	100m/s² 3 times in X, Y and Z directions	500m/s² 3 times in X, Y and Z directions
Protect the structure		IEC standard IP64							
Connection method		Lead type (standard wire length 2m)							

Relay

Relay

Model	Sequence diagram	Output circuit
E3JK-5M1-N* E3JK-5M2-N* E3JK-R2M1 E3JK-R2M2 E3JK-R4M1 E3JK-R4M2 E3JK-DS30M1 E3JK-DS30M2		

DC no contact

Model	Sequence diagram	Output circuit
E3JK-5S3-N* E3JK-R2S3 E3JK-R4S3 E3JK-DS30S3		

Note: There is no polarity on the emitter side, so please connect the power supply to the brown and blue terminals according to any polarity.
* The corresponding type (E3JK-5□□ -N 2M) records the models of the emitter and receiver.
The model of the optical projector is e3JK-5L-N 2M. The model number of the optical receiver is appended with "D" (for example, E3JK-5DM1-N 2M). Please confirm the respective model of emitter and receiver.