

- Wide operating voltage range: 10~30VDC or 90~250VAC
- All models with the operating indicator for easy identified
- Good waterproof, conforming to IP-66 requirement
- Output method : NPN, PNP, AC - 2 wires, AC - 3 wires

Outline Dimension (Unit: mm)	Model No.	Output Status	Output Method	Sensing Distance	Mounting Method	Operating Voltage	Response Frequency
	GEN-1705-E1	NO	NPN	5mm	Non-Flushed	10-30VDC	600Hz
	GEN-1705-E2	NC					
	GEN-1705-P1	NO	PNP				
	GEN-1804-E1	NO	NPN	4mm	Non-Flushed	10-30VDC	500Hz
	GEN-1804-E2	NC					
	GEN-1804-P1	NO	PNP			90-250VAC	15Hz
	GEN-1804-A1	NO	AC - 2 wire				
	GEN-2507-E1	NO	NPN	7mm	Non-Flushed	10-30VDC	500Hz
	GEN-2507-E2	NC					
	GEN-2507-P1	NO	PNP			90-250VAC	15Hz
	GEN-2507-A1	NO	AC - 2 wire				
	GEN-2507-3A1	NO	AC - 3 wire				
	GEN-2507-3A2	NC	AC - 3 wire				
	GEN-3010-E1	NO	NPN	10mm	Non-Flushed	10-30VDC	500Hz
	GEN-3010-E2	NC					
	GEN-3010-P1	NO	PNP			90-250VAC	15Hz
	GEN-3010-A1	NO	AC - 2 wire				
	GEN-3010-3A1	NO	AC - 3 wire				
	GEN-3010-3A2	NC	AC - 3 wire				
	GLX-1202-E1	NO	NPN	2mm	Flushed	10~30VDC	800Hz
	GLX-1202-E2	NC					
	GLX-1202-P1	NO	PNP			90~260VAC	1K Hz
	SC1202-KP2	NO / NC	NPN / PNP				
	SC1202-A	NO	SCR				
	GLX-1204-E1	NO	NPN	4mm	Non-Flushed	10~30VDC	500Hz
	GLX-1204-E2	NC					
	GLX-1204-P1	NO	PNP			90~260VAC	20Hz
	SC1204-KP2	NO / NC	NPN / PNP				
	SC1204-A	NO	SCR				
	GLX-1805-E1	NO	NPN	5mm	Flushed	10-30VDC	400Hz
	GLX-1805-E2	NC					
	GLX-1805-P1	NO	PNP			90-250VAC	20Hz
	GLX-1805-A1	NO	AC - 2 wire				
	GLX-1805-3A1	NO	AC - 3 wire				
	GLX-1805-3A2	NC	AC - 3 wire				
	GLX-1808-E1	NO	NPN	8mm	Non-Flushed	10-30VDC	300Hz
	GLX-1808-E2	NC					
	GLX-1808-P1	NO	PNP			90-250VAC	20Hz
	GLX-1808-A1	NO	AC - 2 wire				
	GLX-1808-3A1	NO	AC - 3 wire				
	GLX-1808-3A2	NC	AC - 3 wire				
	GLX-3010-E1	NO	NPN	10mm	Flushed	10-30VDC	200Hz
	GLX-3010-E2	NC					
	GLX-3010-P1	NO	PNP			90-250VAC	20Hz
	GLX-3010-A1	NO	AC - 2 wire				
	GLX-3010-3A1	NO	AC - 3 wire				
	GLX-3010-3A2	NC	AC - 3 wire				
	GLX-3015-E1	NO	NPN	15mm	Non-Flushed	10-30VDC	100Hz
	GLX-3015-E2	NC					
	GLX-3015-P1	NO	PNP			90-250VAC	20Hz
	GLX-3015-A1	NO	AC - 2 wire				
	GLX-3015-3A1	NO	AC - 3 wire				
	GLX-3015-3A2	NC	AC - 3 wire				

Proximity Sensor

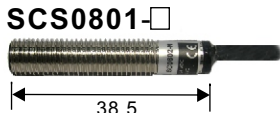
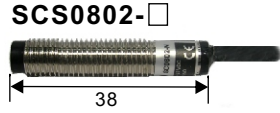
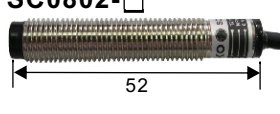
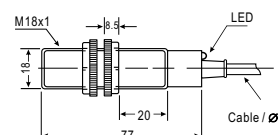
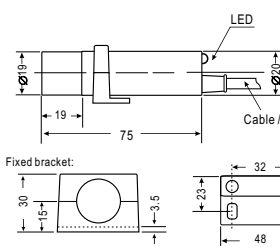
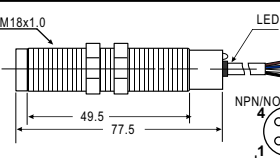
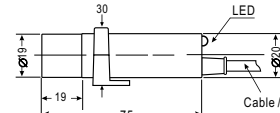
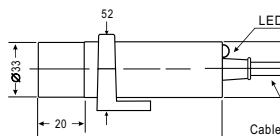
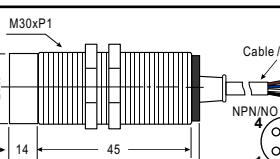
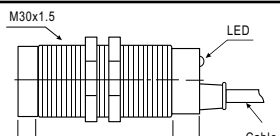
Outline Dimension (Unit: mm)	Model No.	Output Status	Output Method	Sensing Distance	Wiring Method	Operating Voltage	Response Frequency
Proximity Sensor				Inductive Type			
   	SC□0801-N	NO	NPN	1mm	Ø3x2M/3-wire	10~30VDC	1KHz
	SC□0801-N2	NC	NPN				
	SC□0801-P	NO	PNP				
	SC□0801-P2	NC	PNP				
	SC□0801-ND	NO	NPN	1mm	M8 pigtailed type with 15cm cable		
	SC□0801-N2D	NC	NPN				
	SC□0801-PD	NO	PNP				
	SC□0801-P2D	NC	PNP				
	SC□0802-N	NO	NPN	2mm	Ø3x2M/3-wire		
	SC□0802-N2	NC	NPN				
	SC□0802-P	NO	PNP				
	SC□0802-P2	NC	PNP				
	SC□0802-ND	NO	NPN	2mm	M8 pigtailed type with 15cm cable		
	SC□0802-N2D	NC	NPN				
	SC□0802-PD	NO	PNP				
	SC□0802-P2D	NC	PNP				
	GEX-1805-E1	NO	NPN	5mm	Lead Wire	10~30VDC	500Hz
	GEX-1805-E2	NC					
	GEX-1805-P1	NO	PNP			90-250VAC	20Hz 40Hz
	GEX-1805-A1	NO	AC - 2 wire				
	GEX-1805-3A1	NO	AC - 3 wire				
	GEX-1805-3A2	NC	AC - 3 wire				
	GEC-2008-E1	NO	NPN	8mm	Lead Wire	10~30VDC	200Hz
	GEC-2008-E2	NC					
	GEC-2008-P1	NO	PNP			90-250VAC	20Hz 40Hz
	GEC-2008-A1	NO	AC - 2 wire				
	GEC-2008-3A1	NO	AC - 3 wire				
	GEC-2008-3A2	NC	AC - 3 wire				
Proximity SensorCapactive Type							
	KC1810-B3	NO / NC	NPN	1~10mm	4-wire x 2M	10 ~ 30 VDC	70Hz
	KC1810-B3K	NO / NC	NPN	1~10mm	M12 pigtailed type	10 ~ 30 VDC	70Hz
	KC1810-KP2	NO / NC	NPN / PNP	1~10mm	4-wire x 2M	10 ~ 30 VDC	70Hz
	KC1810-KP2K	NO / NC	NPN / PNP	1~10mm	M12 pigtailed type	10 ~ 30VDC	70Hz
	KEC-2010-E1	NO	NPN	10mm	Lead Wire	10~30VDC	70Hz
	KEC-2010-E2	NC					
	KEC-3425-E1	NO	NPN	25mm	Lead Wire	10~30VDC	40Hz
	KEC-3425-E2	NC	NPN				
	KEC-3425-A1	NO	SCR			90-250VAC	
	KC3025-KP2	NO / NC	NPN / PNP	2~25mm	4-wire x 2M	10 ~ 30 VDC	10Hz
	KC3025-KP2K	NO / NC	NPN / PNP	2~25mm	M12 pigtailed type with wire 15cm	10 ~ 30 VDC	10Hz
	KC3025-KP2K1	NO / NC	NPN / PNP	2~25mm	M12 plug-in connector type	10 ~ 30 VDC	10Hz
	CP30-50C	NO	NPN+PNP	30mm	Lead Wire	10~30VDC	100Hz
	CP30-50S	SCR	AC - 2 wire	30mm	2-wires	90-250VAC	15Hz

Photo Sensor

■ Ordering Guide :

CDR - 30 X - B - V M12

① Model Type	
CDR	DC Reflex Type
CAR	AC Reflex Type
CDM	DC mirror Reflex Type
CAM	AC Mirror Reflex Type
CDT	DC Thru Beam Type

② Sensing Distance	
30	= 30cm
2M	= 2M
10M	= 10M

③ Light Source	
X	Infrared LED
R	Red LED

④ Output Status	
B	NC type
(Non)	NO type

⑥ Connecting Type	
M12	M12 x 1.0 Connector
(Non)	Lead Wire 5øx2M

⑤ Sensing Direction	
V	Vertical Type
(Non)	Horizontal Type



Model No.		Output Status	Sensing Direction	Sensing Distance	Operating Voltage	Current Consumption	Output Method	Sensitivity Adjuster				
Reflex Type												
Lead Wire	CDR-10X	NO	Horizontal	10cm	10~30VDC	25mA max.	NPN & PNP 150mA max.	270° Trimmer				
	CDR-10XB	NC										
	CDR-30X	NO		30cm								
	CDR-30XB	NC										
	CDR-30X-V	NO	Vertical	30cm	90~250VAC 50/60Hz	0.5VA max.	SCR 100mA	270° Trimmer				
	CDR-30XB-V	NC										
	CAR-10X	NO	Horizontal	10cm								
	CAR-10XB	NC										
	CAR-10X-V	NO	Vertical	10cm								
	CAR-10XB-V	NC										
Connector	CDR-10X-M12	NO	Horizontal	10cm					10~30VDC	25mA max.	NPN & PNP 150mA max.	270° Trimmer
	CDR-10XB-M12	NC										
	CDR-30X-M12	NO	Horizontal	30cm								
	CDR-30XB-M12	NC										
	CDR-30X-V-M12	NO	Vertical	30cm								
	CDR-30XB-V-M12	NC										
Mirror Reflex Type												
Lead Wire	CDM-1MN	NO	Horizontal	0.1M~1.6M	10~30VDC	20mA max.	NPN	Non				
	CDM-1MR	NO	Horizontal	0.1M~1.6M	10~30VDC	20mA max.	NPN & PNP 150mA max.	270° Trimmer				
	CDM-1MRB	NC		0.1M~2.5M								
	CDM-2MX	NO		0.1M~2.0M								
	CDM-2MXB	NC										
	CDM-2MX-V	NO	Vertical	0.1M~2.0M	90~250VAC	0.5VA max.	SCR 100mA	270° Trimmer				
	CDM-2MXB-V	NC										
	CAM-2MX	NO	Horizontal	0.1M~2.0M								
	CAM-2MXB	NC										
	CAM-2MX-V	NO	Vertical									
	CAM-2MXB-V	NC										
	Connector	CDM-2MX-M12	NO	Horizontal					0.1M~2.5M	10~30VDC	20mA max.	NPN & PNP 150mA max.
CDM-2MXB-M12		NC										
CDM-2MX-V-M12		NO	Vertical	0.1M~2.0M								
CDM-2MXB-V-M12		NC										
Thru Beam Type												
Lead Wire	CDT-10MX	NO	Horizontal	10M					10~30VDC	P<20mA R<25mA	NPN & PNP 150mA max.	270° Trimmer
	CDT-10MXB	NC										
	CDT-6MX-V	NO	Vertical	6M								
	CDT-6MXB-V	NC										
Connector	CDT-10MX-M12	NO	Horizontal	10M	10~30VDC	P<20mA R<25mA	NPN & PNP 150mA max.	270° Trimmer				
	CDT-10MXB-M12	NC										
	CDT-6MX-V-M12	NO	Vertical	6M								
	CDT-6MXB-V-M12	NC										

Photo Sensor / Mark Sensor

FIBER SENSOR



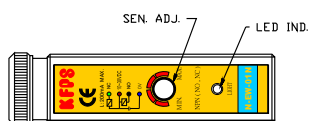
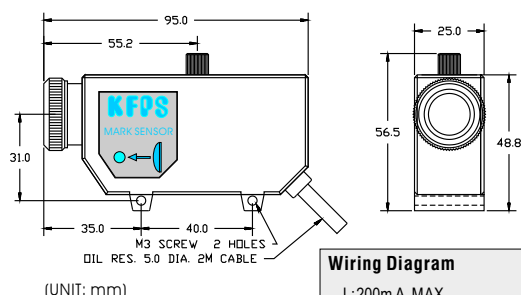
■ Features

- High speed response time: 0.2ms
- Auto-tuning of sensitivity and emitting strength, easy to finish the function setting
- Output off delay: 0.1s (optional)
- Dark ON / Light ON changeable
- NPN & PNP TWO OUTPUTS

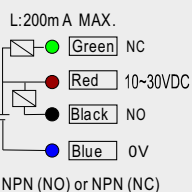
■ Specification

Wiring Type	Lead Wire (4C/0.5x2M)		M8 Lead-wire with connector	
Model No	MF-06R	MF-06RT	MF-06R-M8	MF-06RT-M8
Output Delay	None	0.1s	None	0.1s
Response Time	0.2ms			
Emitter	High efficiency Red LED			
Operating Voltage	10~30VDC ; Ripple < 20% of peak to peak			
Current Consumption	45mA max.			
Output Method	NPN & PNP two outputs			
Output Status	NO / NC changeable			
Output Current	150mA max.			
Leakage Current	0.8mA. Max.			
Residual Voltage	0.8V Max.			
Protection Circuit	Short circuit & Polarity Reversed protection			
Housing Material	Intensive ABS			
Protection Class	IP 65			
Operating Ambient	-20°C ~ +60°C ; 35 ~ 85% RH			

N-EW-01N



Wiring Diagram



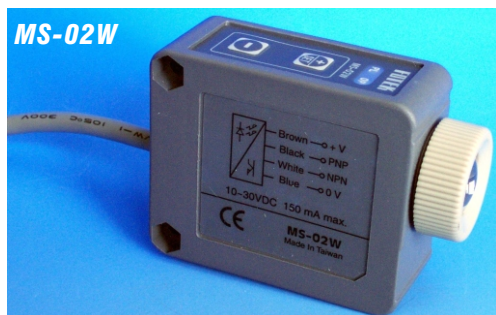
MARK SENSOR

Model No. N-EW-01N

SPECIFICATION	DESCRIPTION
METHOD OF DETECTION	DIFFUSE REFLECTION TYPE
OPERATING VOLTAGE	10-30VDC PERMISSIBLE(P-P) 10% MAX.
CURRENT CONSUMPTION	<40mA
DETECTING DISTANCE	14~20MM
OBJECT	1MM dia. Min.
LOAD CURRENT	200mA MAX.
SWITCHING FREQUENCY	1KHz
PROTECTION CIRCUIT	SHORT CIRCUIT & POLARITY REVERSED PROTECTION
INDICATOR	LIGHT INDICATOR (RED)
LIGHT SOURCE	WHITE LIGHT LED
SENSITIVITY	SINGLE TURN
OUTPUT TYPE	NPN NO / NPN NC
INSULATION RESISTANCE	MIN. 20M OHM (500VDC) MEGGER
DIELECTRIC STRENGTH	AC 1000V 50/60 1 MINUTE
AMBIENT TEMPERATURE AND HUMIDITY	-25° to +70°C ; 35 ~ 95% RH
ALLOWABLE AMBIENT ILLUMINATION	LAMPLIGHT: 3000Lux SUNLIGHT :10000 Lux
VIBRATION RESISTANCE	Double Amplitude 1.5mm 10 to 55Hz each 2hours X,Y,Z, DIRECTION
IMPACT RESISTANCE	490M/S ² (approx. 50G'S) 3 TIMES EACH OF X.Y.Z. AXES
PROTECTION GRADGE	IEC IP-67
HOUSING MATERIAL	PBT
WEIGHT	170g

MARK SENSOR

MS-02W



Model No: **MS-02W** (Lead-wire Type)

Response Time: 0.2ms

Setting Distance: 25.0 ± 2.0mm

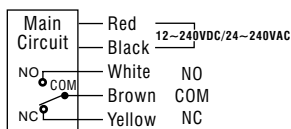
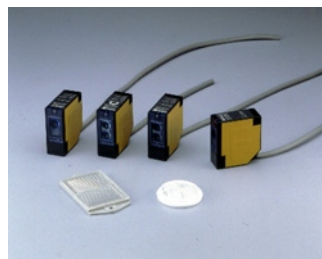
Emitter & Light spot: White Light Led with spot 2.0Ø d:

Output Method: NPN & PNP (Two Outputs) ; NO or NC changeable

Output Current: Max. 150mA

Current Consumption: Max. 40mA

FREE POWER PHOTO SENSOR A3-series



Extensive Operating Voltage: DC12~240V or 24~240VAC

High capacity Relay output 3A/250VAC

Standard structure IP-65 or Water-proof model with structure IP-67

Reflex Type - Model No	A3R-30X	A3R-1MX	A3R-2MX
Sensing Distance	30cm	100cm	200cm
Output Status	NO <Received ON>		
Min. Sensible Object	5.0Ø		
Mirror Reflex - Model No	A3G-2MR	A3G-2MRS	A3G-4MX
Sensing Distance	3M	2M	4M
Output Status	NO <Break ON>		
Min. Sensible Object	2.0Ø	5.0Ø	
Thru Beam - Model No	A3T-3MX	A3R-10MX	A3R-20MX
Sensing Distance	3M	10M	20M
Output Status	NO <Break ON>		
Min. Sensible Object	2.0Ø	5.0Ø	10.0Ø

Note 1): Above model plus code "P" for water-proof model

Note 2): Standard model is NO type, plus code "B" for NC type