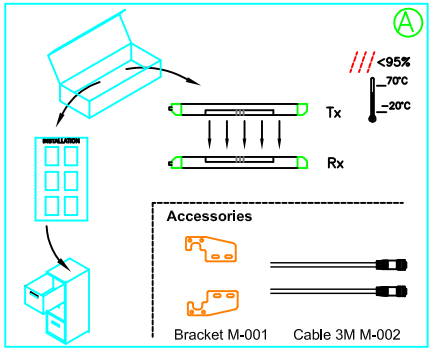
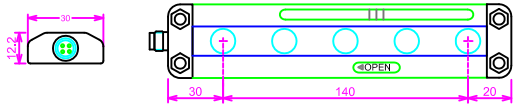
INSTALLATION

Slim Type Light Curtain MA2

Rev: JUN.09.2009





This device may not be suitable for use in safety related applications

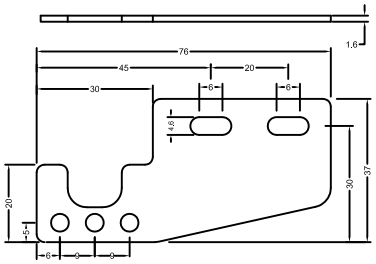
Model List

Model Number	Number of Beams	Detection Zone (mm)	Object Detection	Length (mm)
MA2-8	8	140	25	190
MA2-12	12	220	25	270
MA2-16	16	300	25	350

SPECIFICATION

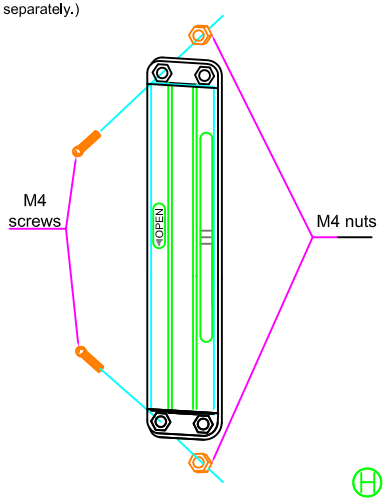
Number of beams	8-48
Object detection	25mm
Detection zone	140-940mm
Range	short 0.2m-1.5m long 0.5m-3m
Light type	Infra-Red 880nm
Response time	20ms
Operating temperature	0°Cto +70°C
Light curtain enclosure	IP62
Status indicators TX	Yellow=Power
Status indicators RX	Red=Blocked Green=Clear
Power supply requirement	22-28VDC Ripple<10% Diode Protected
Current consumption	40mA per 8 beams
Light curtain connection	M8 4core or 3M calbe connected to both TX&RX units
Classification	CE mark
Warranty	1 year
Outputs (NPN or PNP)	24V 20mA ,0V -40mA

BRACKET

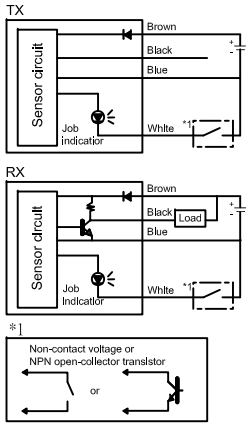


MOUNTING

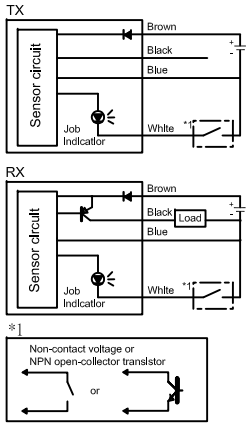
Use M4 screws and M4 nuts. The tightening torque should be 0.5N m or less.
During mounting , do not apply any bending or twisting force to the sensor.(Please arrange the screws and nuts separately.)



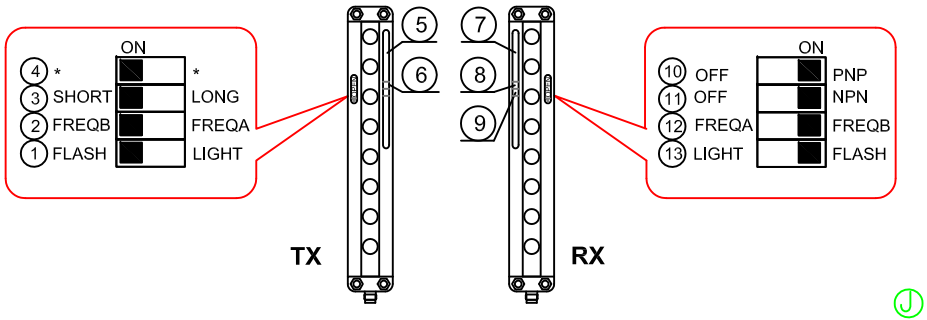
NPN output



PNP output



		Operation mode by switch	Description
TX	1	Job indicator operation selection	FLASH / LIGHT
	2	Emission frequency selection	FREQB / FREQA
	3	Range selection	SHORT / LONG short range 0.2-1.5M long range 0.5-3M
	4	*	*
	5	Job indicator (Orange)	Light up, flash is select by the operation mode switch on the emitter.
	6	Tx power-on indicatior (Yellow)	Light up when the power is on.
	7	Job indicator (Orange)	Light up, flash is select by the operation mode switch on the receive.
RX	8	Stable incident beam indicator (Green)	Light up when all beam channels are stably received.
	9	Operation indicator (Red)	Light up when one or more beam channels are interrupted.
	10	PNP output	OFF / PNP
	11	NPN output	OFF / NPN
	12	Receiver frequency selection	The frequency switch must be setting the same on the emission
	13	Job indicator operation selection	LIGHT / FLASH



Note: All the switches must be set with the power supply off . The operation mode does not change if the switch setting is changed with the power supplied.

CAUTIONS

- Make sure that the power supply is off while wiring.
- Take care that wrong wiring may damage the sensor.
- Verify that the supply voltage variation is within the rating.
- If power is supplied from a commercial switching regulator, ensure that the frame ground (F.G.)terminal of the power supply is connected to an actual ground.
- In case noise generating equipment(switching requlator , inverter motor, etc.)is used in the vicinity of this product, connect the frame ground (F.G.)terminal of the equipment to an actual ground.
- Do not run the wires together with high-voltage lines or power lines or put them in the same raceway.This can cause malfunction due to induction.
- Extension up to total 25m is possible, for both emitter and receiver, with 0.2mm, or more, calbe , However, In order to reduce noise, make the wiring as short as possible.
- Do not use during the initial transient time (500ms) after the power supply is switched on.
- Avoid dust, dirt, and steam.
- Take care that the sensor does not come in direct contact with water, oil,grease, or organic solvents, such as, thinner,etc.
- Do not use in an environment containing inflammable or explosive gas.
- Make sure to use an isolation transformer for the DC power supply.If an auto-transformer(single winding transformer)is used, this product or the power supply may get damaged.
- In case a surge is generated in the used power supply, connect a surge absorber to the supply and absorb the surge.
- Take care that the sensor is not directly exposed to fluorescent light from a rapid -starter lamp or a high frequency lighting device, as it may affect the sensing performance.
- The emitter and the receiver must face each other with their cable ends on the same side. If they are set upside down, the sensor will not work correctly.
- This sensor is suitable for indoor use only.