



SAFETY LIGHT CURTAIN

N series Area sensor

F series Thin Area sensor

MS series Thin Area sensor

M series Thin Area sensor

LX series Thin Area sensor

EX series Diffusion reflection



Official website



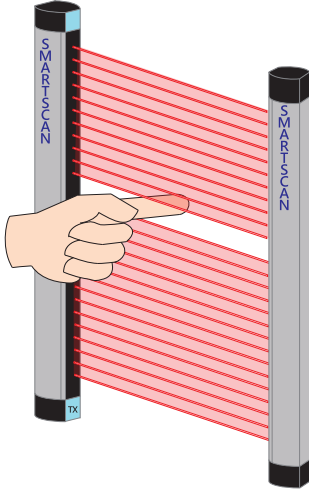
SMARTSCAN TW LTD.
www.smartscan.com.tw



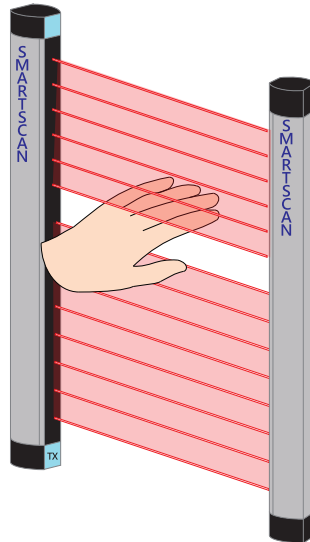
Certificate number : 79Q13722

Area Sensors

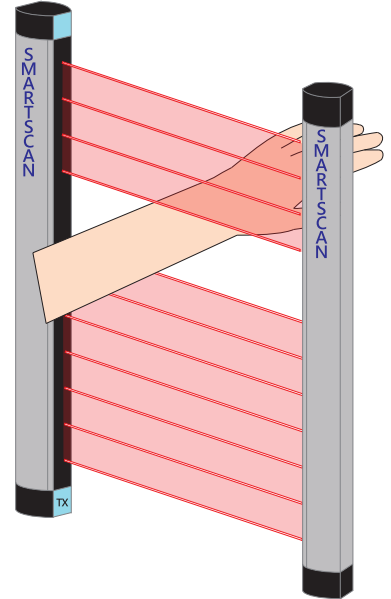
1 Select the light curtain through the required detection capability



Detection capability 14mm
Detect finger



Detection capability 25mm
Detect hand (palm)



Detection capability 45mm
Detect wrist

Additional customized services
Detection capability ≥ 70 mm

2 Select the light curtain through characteristics

N series

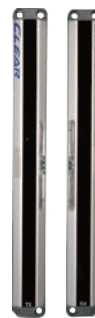


P.2

Universal
Various of detection capability

M series

Slim design
Indicator light
Adjusting switcher



P.10

LX series

Slim design
Side installation



P.18

F series

Slim design
Anti-disturbance light



P.6

MS series

Slim design
Special range
Anti-disturbance light



P.15

EX series

Diffusion reflection
Unilateral installation



P.21

F series

Thin Area sensor

Applications

- Injection molding machine
- Packing Line Orientation Control
- Object sensing
- Automation industry sensing
- Parking equipment sensing
- Part picking detection
- Assembly line direction control

Introduction

F series area sensing light curtain, price concessions, stable quality, variety of types, to meet customer needs, is the most suitable for regional use in the detection, protection, inspection and other diversified sensing. Instruction LVD requirements, with CE marking.



Property

- Various type, 25mm(Unextendable) , 10mm , 20mm , 40mm.
- Detection zone:100mm ~ 940mm.
- Highly-Visible Indicator light.
- IP62.
- Provide NPN or PNP selection.
- Installation and calibration easy.
- Quality and stability, price concessions.

General Specifications

Beam axis pitch	25mm	10mm	20mm	40mm
Detection zone	100mm	100mm ~ 760mm	140mm ~ 940mm	120mm ~ 920mm
Operating distance	0.3m to 3m (5m)			
Reaction time	20msec (It does not include relay switch time)			
Classification	CE LVD ; No safety certification (do not use in dangerous equipment)			
Power supply	24VDC \pm 20%			
Power consumption	Basic 40mA ; 8mA more for each axis, up to 400mA			
Output mode	One set of outputs (NPN); model plus P (PNP output)			
Frequency	FREQ A or FREQ B			
Indicator light	Flashing or steady			
Appearance	Aluminum ; Silver anode treatment(standard) ; Aluminum ; Orange anode treatment(select)			
Connector	Direct output(Single hole fixing) for C type ; M8 connector for T type			
Ambient temperature	0°C to +50°C			
Enclosure rating	IP65			

FB1-5 series Detection Capability 30mm

Beam axis pitch : 25mm Standard Operating distance 0.3m to 3m
L type Operating distance 1m to 5m

Model	Beams	Detection Zone (K)(mm)	Overall Length (B)(mm)	Install Length (C)(mm)	Assembly Length (D)(mm)
FB1-5C	5	100	130	140	140

FB2 series Detection Capability 25mm

Beam axis pitch : 20mm Standard Operating distance 0.3m to 3m
L type Operating distance 1m to 5m

Model	Beams	Detection Zone (K)(mm)	Overall Length (B)(mm)	Install Length (C)(mm)	Assembly Length (D)(mm)
FB2-8C	8	140	180	190	190
FB2-12C	12	220	260	270	270
FB2-16C	16	300	340	350	350
FB2-20C	20	380	420	430	430
FB2-24C	24	460	500	510	510
FB2-28C	28	540	580	590	590
FB2-32C	32	620	660	670	670
FB2-36C	36	700	740	750	750
FB2-40C	40	780	820	830	830
FB2-44C	44	860	900	910	910
FB2-48C	48	940	980	990	990

FB3 series Detection Capability 45mm

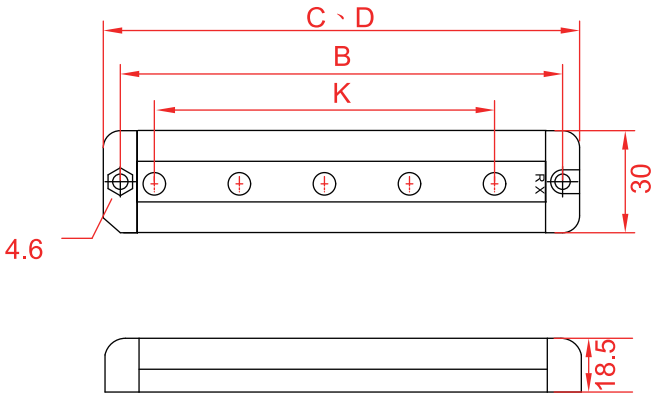
Beam axis pitch : 40mm Standard Operating distance 0.3m to 3m
L type Operating distance 1m to 5m

Model	Beams	Detection Zone (K)(mm)	Overall Length (B)(mm)	Install Length (C)(mm)	Assembly Length (D)(mm)
FB3-4C	4	120	180	190	190
FB3-6C	6	200	260	270	270
FB3-8C	8	280	340	350	350
FB3-10C	10	360	420	430	430
FB3-12C	12	440	500	510	510
FB3-14C	14	520	580	590	590
FB3-16C	16	600	660	670	670
FB3-18C	18	680	740	750	750
FB3-20C	20	760	820	830	830
FB3-22C	22	840	900	910	910
FB3-24C	24	920	980	990	990

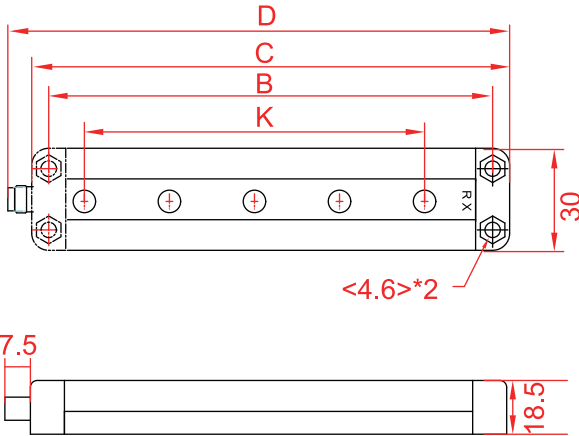
FB1 series Detection Capability 15mm

Beam axis pitch : 10mm Standard Operating distance 0.3m to 3m
L type Operating distance 1m to 5m

Model	Beams	Detection Zone (K)(mm)	Overall Length (B)(mm)	Install Length (C)(mm)	Assembly Length (D)(mm)
FB1-11C	11	100	130	140	140
FB1-22C	22	210	240	250	250
FB1-33C	33	320	350	360	360
FB1-44C	44	430	460	470	470
FB1-55C	55	540	570	580	580
FB1-66C	66	650	680	690	690
FB1-77C	77	760	790	800	800



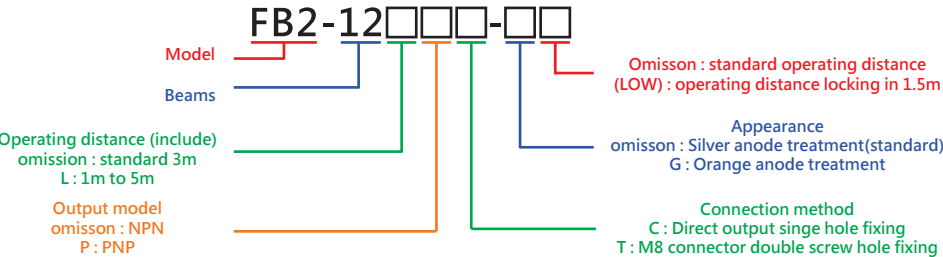
C type (standard type)
Direct output ,Single screw hole fixing



T type
M8 connector ,Double screw hole fixing

The assembly length of the T type is 7.5mm more than the C type.

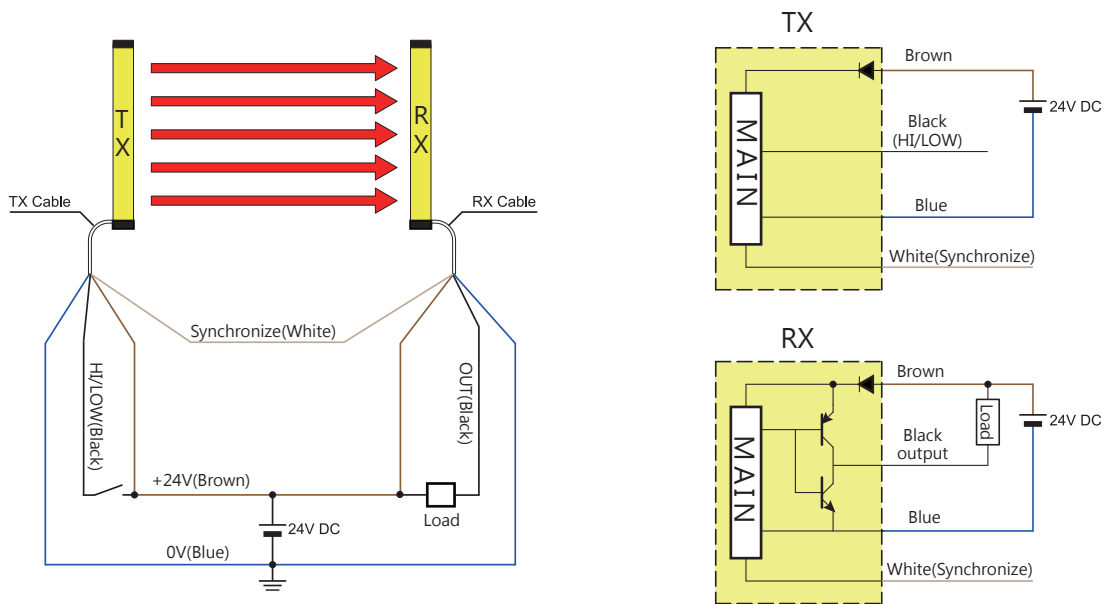
Customized service description of F series :



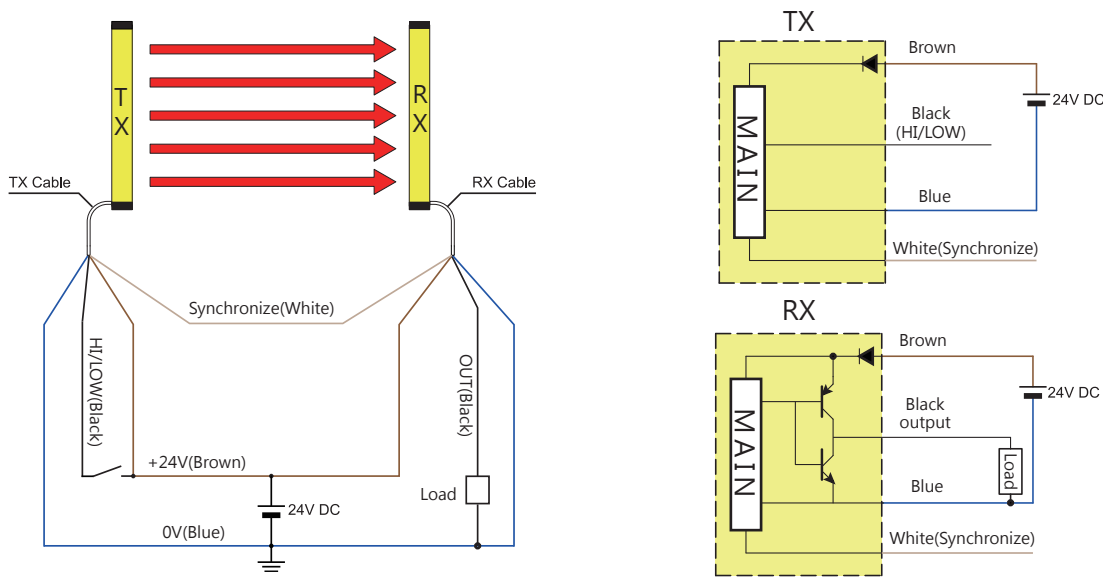
※ SMARTSCAN provide customized services.
Please connect with our sales.

Electric Connection

NPN Output



PNP Output



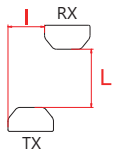
Detection characteristics

Parallel movement characteristics

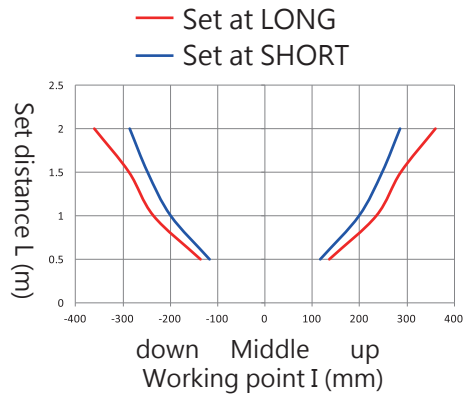
Vertical direction



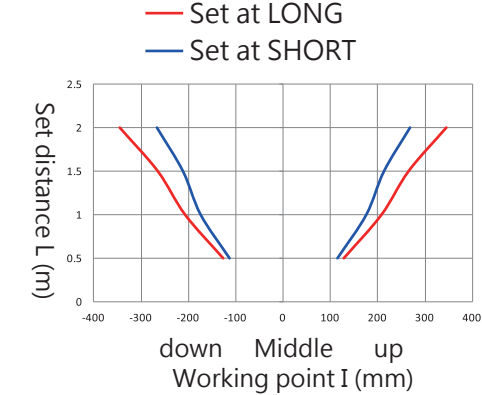
horizontal direction



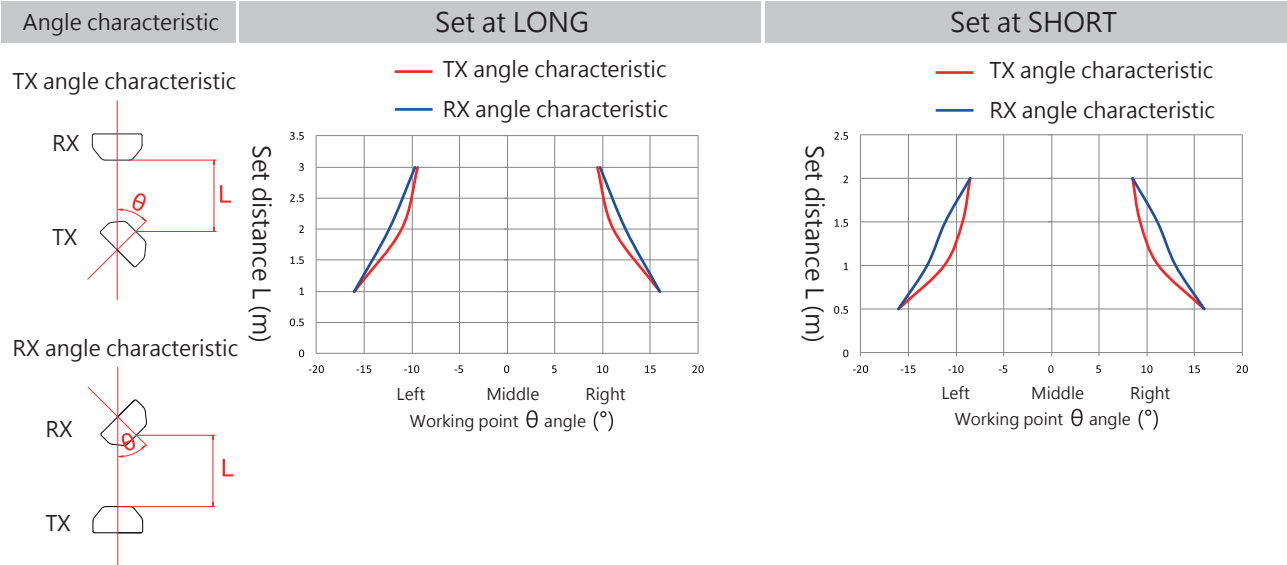
Vertical direction



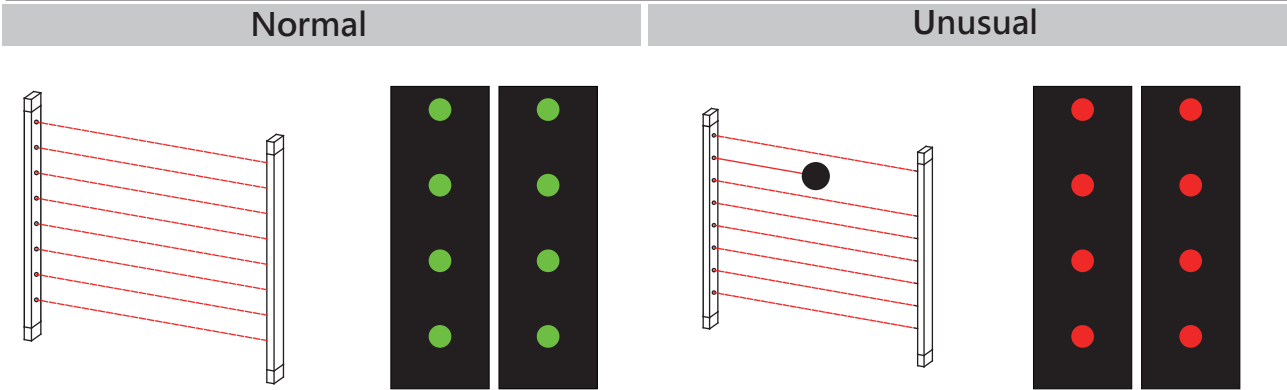
horizontal direction



F Thin Area sensor



Highly- Visible Indicator light





Business Consulting



Customer service



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