

F series

Thin Area sensor

Applications

- Object Detection Sensor
- Object detection
- Auto working detection
- Parts Pick Detection
- Packaging line
- Assembly Line Direction Control

Introduce

The F-series area sensing light curtains are versatile in terms of price and variety, and are easy to meet customer needs. They are the most suitable for use in a wide range of sensing light curtains for area detection, protection, inspection and discrimination. Instruction LVD requirements, with CE marking.



Property

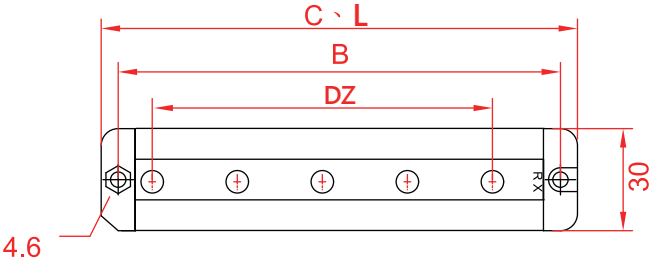
- Detection capability 25mm (Non-extendable), 10mm, 20mm, 40mm.
- Length Detection 100mm ~ 940mm, various type to meet customer needs.
- Highly-Visible indicator light.
- IP62 (Ingress Protection)Ratings.
- Possess NPN and PNP wiring method to meet customer needs (Limit FA Series model version).
- Light sync automatic pairing version, possess FREQA and FREQB two frequency to meet customer needs(Limit FA Series model version).
- Good quality and stability, price concessions.
- An ingenious device, Aluminum extrusion structure.
- Easy to install and calibrate for alignment, ambient light rejection superior performance.

General Specifications

Basic information				
Optical Axis Pitch	25mm	10mm	20mm	40mm
Number of beam	5	11-77	8-48	4-24
Detection zone	100mm	100mm ~ 760mm	140mm ~ 940mm	120mm ~ 920mm
Operating distance	0.3m to 3m (5m)			
Response time	20msec (Exclude relay switch time)			
Classification	CE LVD ; No safety notified (do not use in dangerous equipment)			
Power supply	24VDC $\pm$ 10%			
Power consumption	Basic 40mA ; 8mA more for each axis, up to 400mA			
Output mode	One set of NPN or PNP(High-voltage 24V 20mA Low voltage 0V 40mA)			
Operating Frequency	FREQ A(standard) or FREQ B(Select)			
Indicator light	Selectable steady or flashing mode (FA Series Only)			
Appearance	Aluminum ; Silver anode treatment(standard) ; Aluminum ; Gold 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	IP62(Ingress Protection)Ratings			

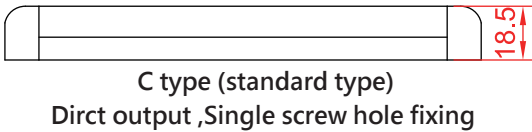
FB1-5 Series Detection Capability 30mm

Optical Axis Pitch : 25mm					
Standard Operating distance 0.3m to 3m					
L type Operating distance 1m to 5m					
Model	Beams	Detection Zone (DZ)(mm)	Overall Length (B)(mm)	Install Length (C)(mm)	Assembly Length (L)(mm)
FB1-5C	5	100	130	140	140



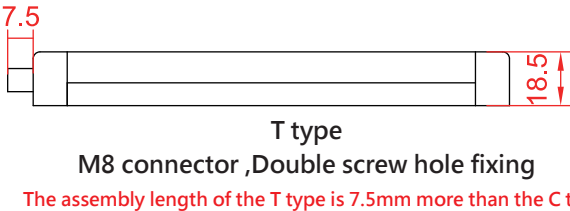
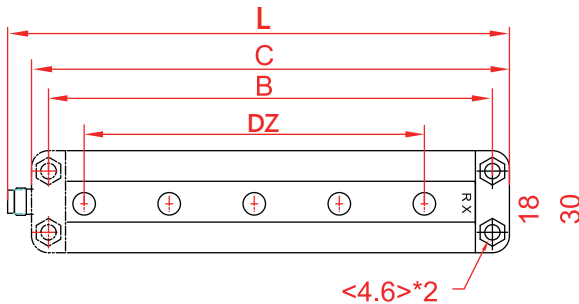
FB1 Series Detection Capability 15mm

Optical Axis Pitch : 10mm					
Standard Operating distance 0.3m to 3m					
L type Operating distance 1m to 5m					
Model	Beams	Detection Zone (DZ)(mm)	Overall Length (B)(mm)	Install Length (C)(mm)	Assembly Length (L)(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



FB2 Series Detection Capability 25mm

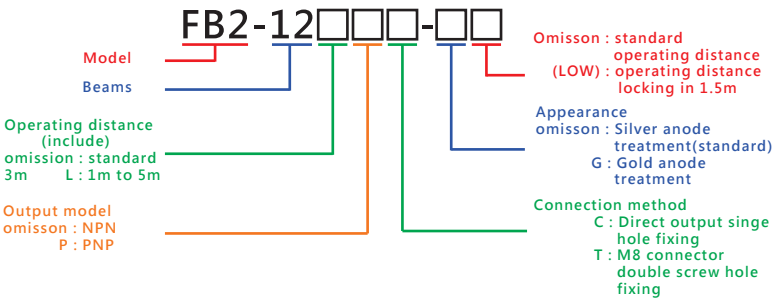
Optical Axis Pitch : 20mm					
Standard Operating distance 0.3m to 3m					
L type Operating distance 1m to 5m					
Model	Beams	Detection Zone (DZ)(mm)	Overall Length (B)(mm)	Install Length (C)(mm)	Assembly Length (L)(mm)
FB2-8C	8	140	180	190	190
FB2-12C	12	220	260	270	270
FB2-16C	16	300	340	350	350
FB2-20C	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

Number of beam : 40mm					
Standard Operating distance 0.3m to 3m					
L type Operating distance 1m to 5m					
Model	Beams	Detection Zone (DZ)(mm)	Overall Length (B)(mm)	Install Length (C)(mm)	Assembly Length (L)(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

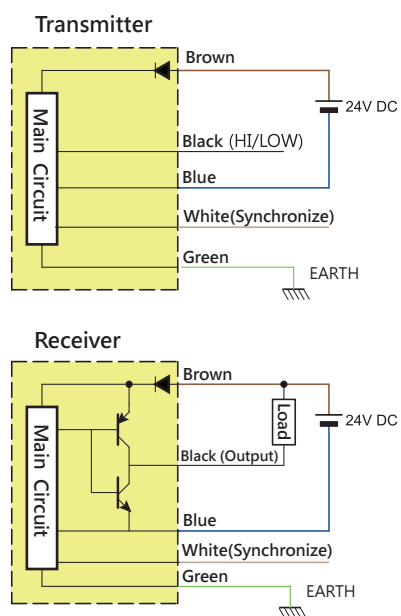
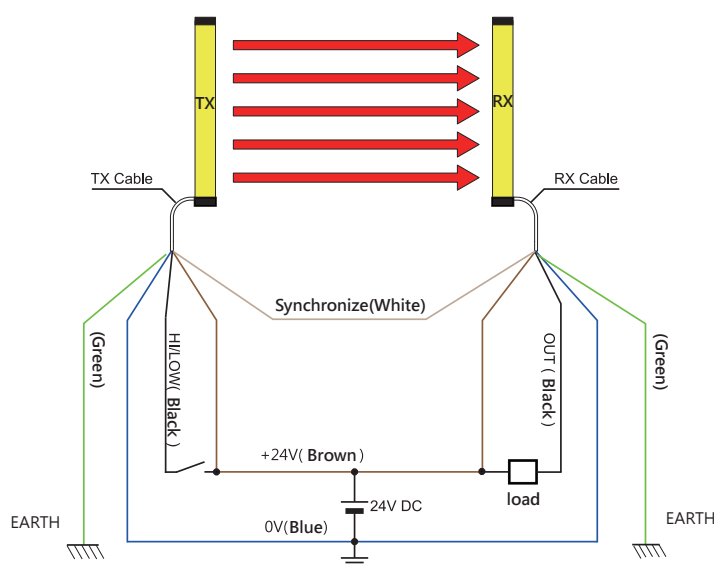
Customized service description of F series :



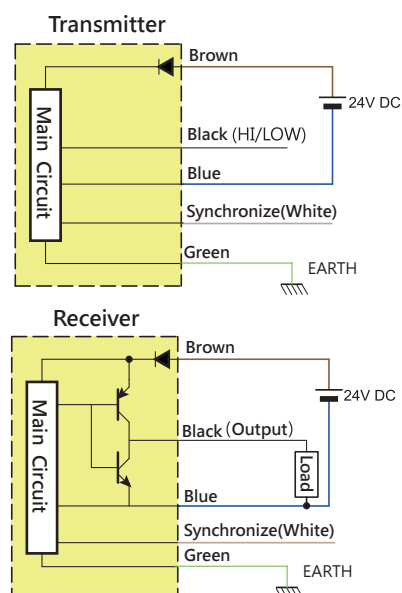
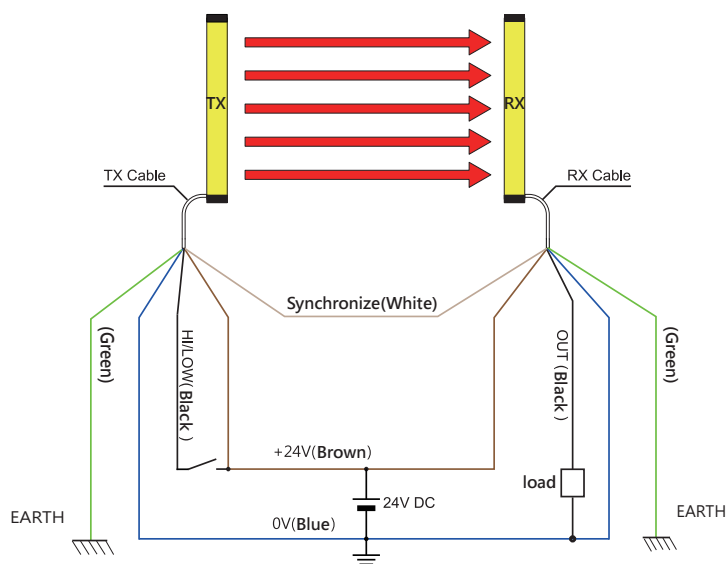
※ SMARTSCAN provide customized services. Please connect with our salesperson.

Electric Connection

NPN Output



PNP Output



Detection Characteristics Diagram

Parallel movement characteristics

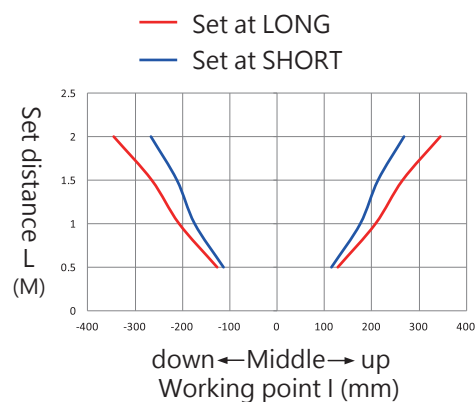
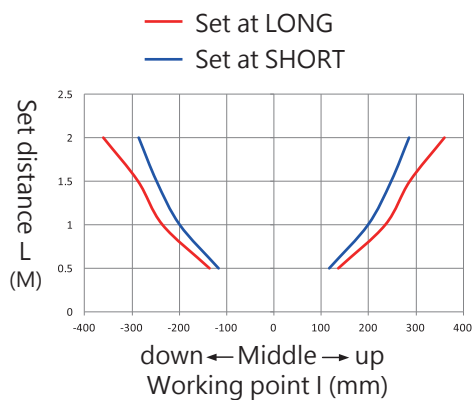
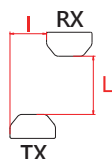
Vertical direction

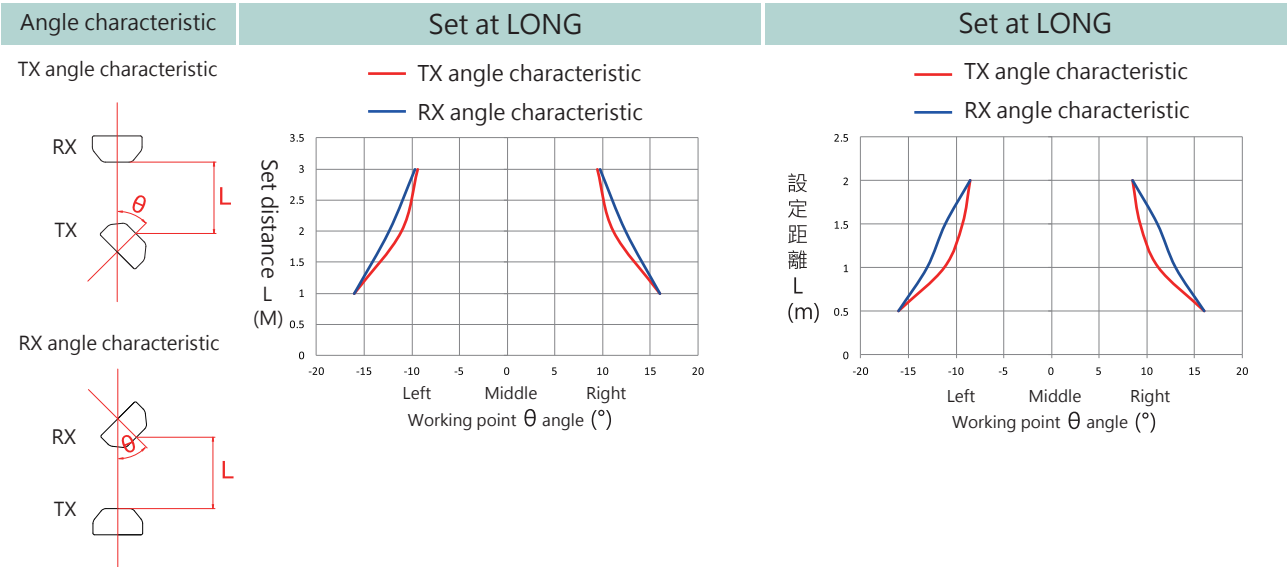
Horizontal direction

Vertical direction



horizontal direction





Highly- Visible Indicator light (Light Sync Model TX feature not available)

