ESCH series

Correction & Centering light curtain

Correction & Centering light curtain is an advanced infrared sensor for deviation correction and center detection of coiled material, which is mainly used for effective deviation correction of various material like corrugated paper, fabric, steel etc. It solves the problem that due to the uneven force on the strip or defect of the conveyor itself, the transmission of material deviates from the center line or limited position, the conveyor runs off track, the edge of the strop is not neat when the strip is coiled. Which may be resulted in much material waste, increase the subsequent process work, affect the quality of strips, and need to increase production and maintenance labor for supervision, resulting in low production efficiency.

Product feature

- Option: Unilateral deviation correction, bilateral combined deviation correction, and center deviation can be selected according to actual needs.
- High detection accuracy: highest accuracy is 1.25mm
- Scanning modes: parallel scanning and cross scanning
- Diverse output options: voltage output, current output, Rs485
- Great ability to resist electromagnetic interference and can effectively resist influence by electromagnetic of various equipment motors.



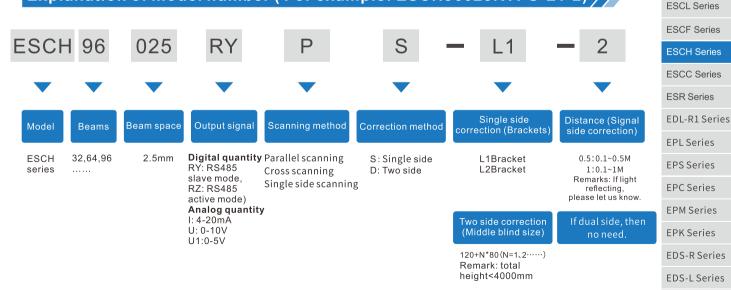
Measurement Light Curtair

EFP Series ESE Series ESQC Series ELG Series EB13 Series ESA Series ESA Series ESP Series ESF Series

Technical parameter 📎

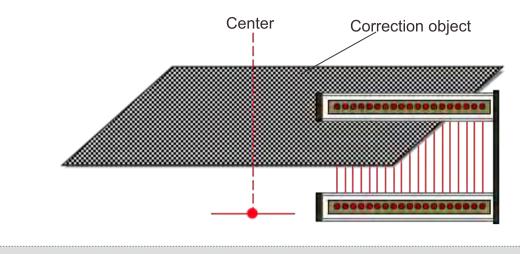
Electrical Parameter				
Power supply	DC12V~30V			
Capacity	<5W			
Beam space	2.5mm			
Accuracy	1.25mm (cross scanning based on 2.5mm), 2.5mm			
Detection height	Detection height= (N-1)* beam space, N is beam quantity			
Beams	32-544 beams (Other can be customized)			
Detection width	80-4000mm (standard)			
Wave length	940nm			
Detection distance	0-200mm (with protective tube & bracket), 0-1000mm (Remark: If any light reflection, please let us know in advanced.)			
Anti-optical interference	10000Lux (angle>5°)			
	Analog voltage 0-5V, 0-10V;			
Output Method	Analog current 4mA-20mA			
	RS485 communication: Modbus protocol, customized protocol			
Sensing method	Through-beam type			
	Communication method: RS485, RS232			
Communication	Baud Rate: 9600bps、19200bps、38400bps、57600bps、115200bps			
	Protocol: Modbus-RTU, customized protocol			
	Data mode: active mode, passive mode			
Synchronization	Wire synchronization			
Enclosure material Aluminum alloy, PC tube				
Protection rating	IP65			
Ambient operating temperature	-10°C~55°C(without frozen)			
Storage temperature	-30°C~70°C(without frozen)			
Ambient operating humidity	When temperature is 20°C, humidity max <85%			

Explanation of model number (For example: ESCH96025RYPS-L1-2)

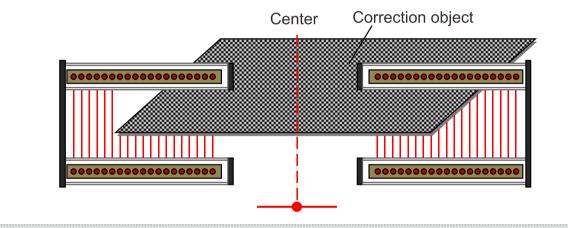


EMB-M01 F27X Series

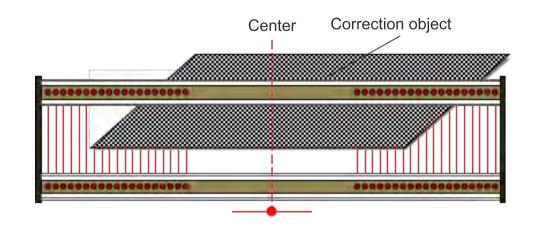
Correction method



Signal side: 1 set light curtain detect and output a group of signals, without protecting tube.



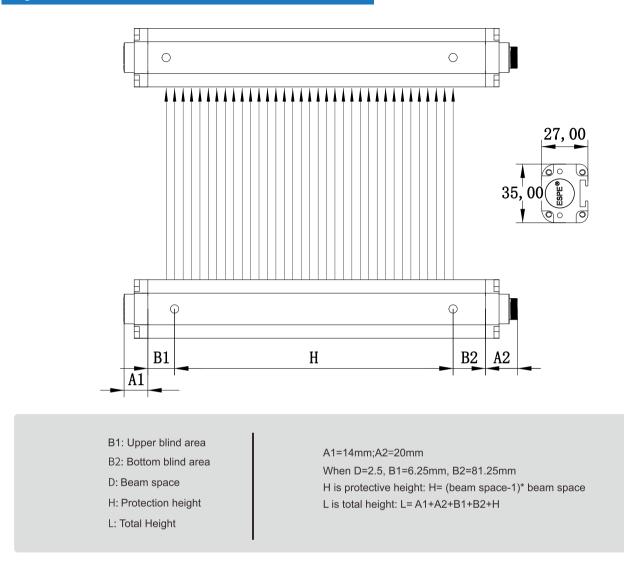
Two side: 2 set light curtain detect and output two groups of independent signals, without protecting tube.



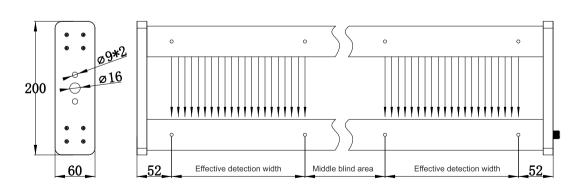
Two side: whole set light curtain detects on two side, the signal or dual data can be output after internal comparison, with protection tube and special mounting brackets.

Product picture

Signal correction/dual side correction (without tube)



Dual side correction (with protection tube)



Middle correction

Middle blind area: W = 120mm+(80mm*N)', N=1, 2, 3······ (Total height<4000mm) Effective detection width H: (beam space-1)* beam space

EFP Series ESE Series ESN Series ESQC Series **ELG Series** EB13 Series EB15 Series ESA Series **ESP** Series EFB Series ESF Series ESCL Series ESCF Series **ESCH Series** ESCC Series ESR Series EDL-R1 Series **EPL** Series **EPS** Series **EPC** Series **EPM** Series **EPK Series** EDS-R Series EDS-L Series EMB-M01 F27X Series

EFP Series

ESE Series

ESN Series

ESQC Series

ELG Series EB13 Series EB15 Series

ESA Series **ESP** Series

EFB Series ESF Series

ESCL Series

ESR Series

EPL Series

EPS Series

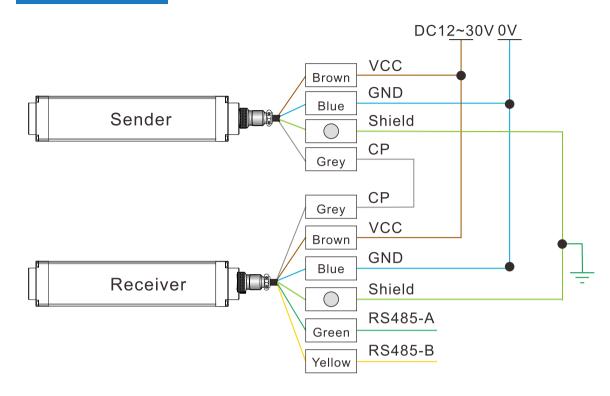
EPC Series

EPM Series **EPK Series**

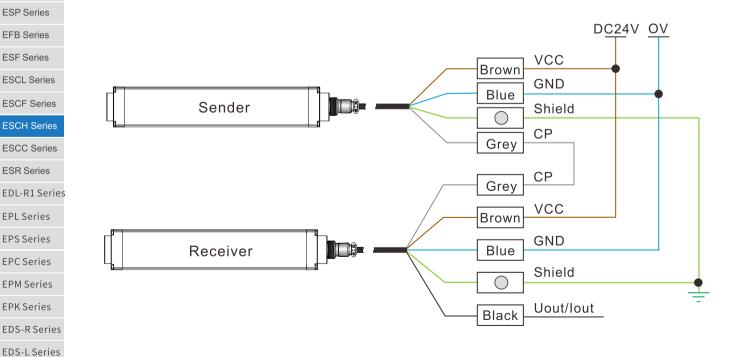
EMB-M01 F27X Series

Wire connection

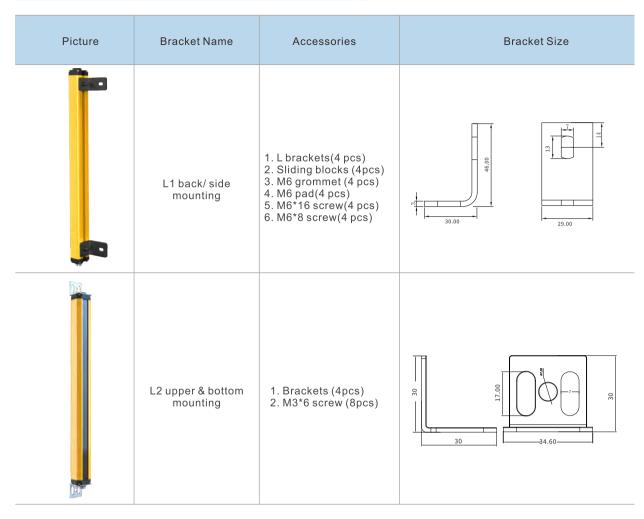
RS485 connection



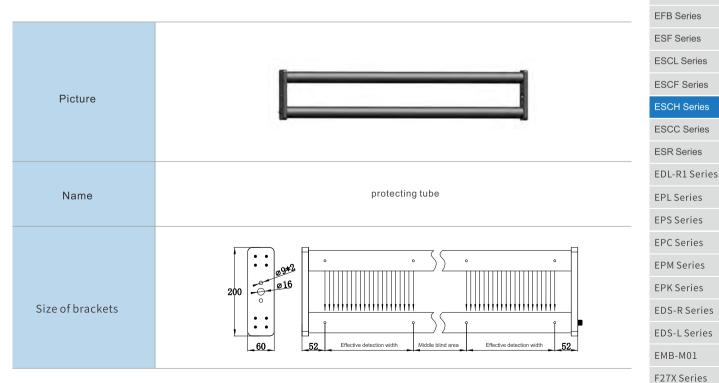
Analog connection



Installation brackets for dual side



Installation brackets for dual side



Measurement Light Curtain

EFP Series

ESE Series

ESN Series ESQC Series

ELG Series EB13 Series EB15 Series ESA Series

ESP Series

https://www.espeyp.com

ESCH selection sheet

• 2.5mm Beam space

rement Light Curtain	Beams	Detection Height(mm)	Model
nt L	32	77.5	ESCH32025
ight	64	157.5	ESCH64025
Cu	96	237.5	ESCH96025
rtair	128	317.5	ESCH128025
	160	397.5	ESCH160025
EFP Series	192	477.5	ESCH192025
ESE Series ESN Series ESQC Series	224	557.5	ESCH224025
ELG Series EB13 Series	256	637.5	ESCH256025
EB15 Series ESA Series	288	717.5	ESCH288025
ESP Series EFB Series	320	797.5	ESCH320025
ESF Series ESCL Series	352	877.5	ESCH352025
ESCF Series ESCH Series ESCC Series	384	957.5	ESCH384025
ESR Series EDL-R1 Series	416	1037.5	ESCH416025
EPL Series EPS Series	448	1117.5	ESCH448025
EPC Series EPM Series	480	1197.5	ESCH480025
EPK Series EDS-R Series	512	1277.5	ESCH512025
EDS-L Series EMB-M01	544	1357.5	ESCH544025
F27X Series			

Remark: Size can be customized according to real application.