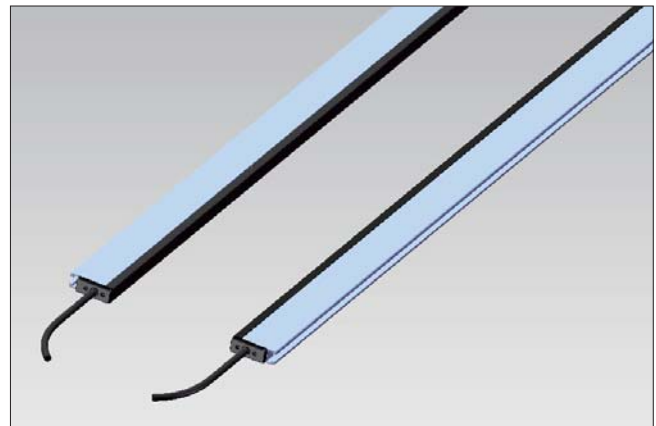


Description	
<ul style="list-style-type: none"> ■ 0-2.75 m sensing range ■ 47 cross scanning beams ■ Power, output and signal status indicators ■ 18 - 30 V dc supply voltage ■ Static and dynamic applications ■ Output: NPN electrode collector N/O ■ Dimensions 	
BRACKET: EH2404701-00M1	Section
ETA2404701 Light curtain	



The EH2404701 light curtain system consists of a TX emitter and RX detector between which an array of Infra red photo-eyes create a break-beam entrance sensor. The detectors are housed in an aluminum and PVC enclosure (13.5 × 57.5mm). The system requires a DC18 - 30 V power supply and has an NPN solid state output configured in the normally open (N/O) condition.

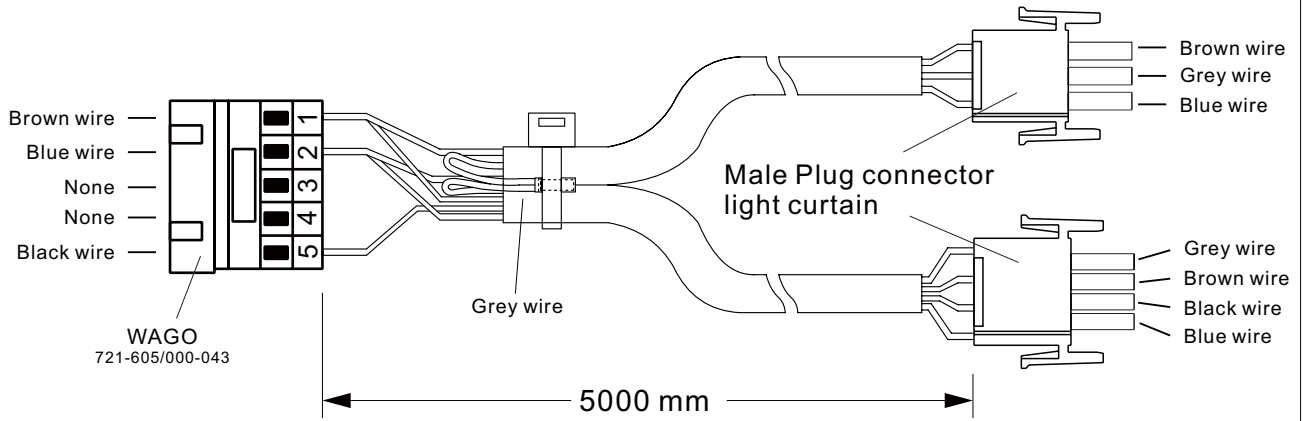
Transmitter and receiver detectors are line-synchronised and multiplexed. The system can be used in both static applications.

Both the transmitter and receiver detectors are protected against reverse polarity of the supply input. The signal output is also protected against short circuit and inductive loads.

Technical Data				
Supply voltage	18 - 30 V dc			
Current consumption	Max. 150mA			
Output rating - max sink current	250mA			
Short circuit protected	Yes			
Reverse polarity protected	Yes			
Number of infrared sensor	24			
Number of cross scanning beams	47			
Detection Range	0 - 2.75 m			
Sensor spacing	75 mm			
Bottom spacing to Ch1	20 mm			
Pinch point beam spacing	37.5 mm			
Detection status output indicator	Red LED	On the top of RX		
Power on indicator	Green LED	On the top of RX		
Output signal	NPN collector output	Normally opened		
Response time	10 - 100 ms			
Installation tolerances	Angle	±5°		
	Horizontal	±4mm		
	Vertical	±10mm		
Cable, PVC Ø 6 mm (TX / RX)	5m 3 / 4 × 0.5 mm ²	TX: Three-core cable RX: Four-core cable		
Housing dimensions (w × d)	13.5 × 57.5 mm			
Housing material	Aluminum / PVC			
Installation kit	Instructions bracket EH2404701-00M1 spring washer M3 top bracket(FAA316CRH1) antenna bracket(DAA316PHE4) top bracket(FAA316PHE3) wire tie(FO231W1) NUT M8(ISO04161-M8-10-Z) hex head cap screw M8x25-8.8 hex head cap screw M8x70-8.8 hex head cap screw M6x15-8.8	1part 1set 14pcs 2pcs 1pcs 1pcs 4pcs 7pcs 2pcs 2pcs 4pcs	receiver & emitter corss countersunk head screw M3x10 NUT M3 telescopic square bar(FAA316CRG1 or 2) antenna bracket(DAA316PHE5) antenna bracket (DAA316PHE6) NUT M8(ISO4035-M8-04-Z) NUT M6(ISO4161-M6-10-Z) hex head cap screw M8x20-8.8 hex head cap screw M6x25-8.8 hex head cap screw M6x60-8.8	1set 14pcs 14pcs 2pcs 1pcs 2pcs 1pcs 15pcs 2pcs 10pcs 1pcs

Environmental Data	
Light immunity @ 5° incidence	> 100,000 lux
Temperature, operation	0 to +55 °C
Temperature, storage	- 20 to +60 °C
Sealing class	IP 54
Vibration	Vibration 20 to 500Hz 4hrs per X-Y-Z axis, sinusoidal vibration 30Hz rms 30mins per X-Y-Z axis
Environment test (high & low temperature)	IEC60068.1 — IEC60068.4
Approvals	EMC: EN12015, EN12016

Wiring Diagrams



Brown wire	+24V DC
Blue wire	-0V
Black wire	Output
Grey wire	sync. signal

Dimensions and Descriptions & Beam Patterns

