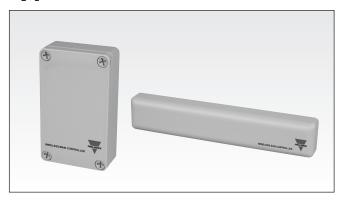
Wireless Entrapment Protection Device For Industrial Doors ESPE Type WSM / WSS ...

WSM 2 B A 2 D24



Product Description

Wireless Entrapment Protection Device (EPD) for Industrial Doors. The system is designed to replace the connection cable between the ESPE (electro-sensitive protective equipment) and the door controller. The sub controller has input for either N.C. ESPE, N.O. 8.2 k Ω ESPE or the Carlo Gavazzi low consumption photoelectric ESPE N.C. contact. The system is designed for high reliability using 2.4 GHz duplex communication between the main controller and sub controller. The main controller can handle up to 4 sub modules i.e. one system can handle 8 ESPEs.

The sub controller is activated by a test signal from the main controller and stays active during the period of time set at the main controller up to 80 seconds.

- Wireless Entrapment Protection Device for Industrial Doors
- Input for two ESPE (electro-sensitive protective equipment)
- Replaces cable between Door controller and ESPE
- Input for door-in-door sensor
- Output ESPE: 1 x SPST NC, 1 x SPST NO (8,2kΩ)
- Output low battery: 1 x SPST NC contact
- 2,4 GHz duplex communication
- Built-in antenna
- IP66 ratings

Ordering Key

Function _________ Main/Sub Controller _______ No of channels _______ Mute function _______ Adjustment _______ Output ______ Power supply ______

Type Selection

Housing W x H x D	Range Wireless		Туре	Ordering no.
75 x 125 x 35 mm	10 m		Main Controller	WSM 2 B A 2 D24
45 x 214 x 22 mm	10 m		Sub Controller	WSS 2 B A 2 BAT
Housing W x H x D	Range Sn	Cable length	Туре	Ordering no.
Ø11 x 24.5 mm	15 m	2 m	Emitter	PB 11 CNT 15 WE
Ø11 x 24.5 mm	15 m	12 m	Receiver	PB 11 CNT 15 WR

Specifications Main Controller (WSM)

Rated operational volt. $(U_{\scriptscriptstyle B})$	12 to 24 VAC/DC (-10 +15%)	Ind P
Ripple (U _{rpp})	≤ 10%	E
Supply current	< 50 mA	L
Communication Frequency	2.4 GHz Duplex	C Tes
Number of channels	r of channels 16 selectable via DIP switc	
Sub Controller live time	10 – 80 sec. Selectable via DIP-switches	(a Ai Ai
Relay ESPE NC ESPE NO 8.2 kΩ Low Battery	SPST SPST SPST 1 A / 30 VDC 0,5 A / 30 VAC >100.000 AC11 or DC11	
Protection	Reverse polarity, transients	0

Indications Main Controller Power supply ESPE 1 or 2 active Low Battery Channels not synchronized	Green LED 2 x yellow LEDs Red LED Toggle red & green LED
Test input	
(active high or active low)	Selectable via DIP switch
Active high	12-24 V
Active low	0 V
Test impulse time	
Minimum pulse width	> 100 mS
Maximum pulse width	< 2 sec
Operating frequency	25 Hz per sub controller
Response time	
OFF-ON (t _{on})	≤ 120 ms
ON-OFF (t _{OFF})	≤ 120 ms



Specifications Main Controller (WSM) (cont.)

Environmental Installation category	III (IEC 60664/60664A; 60947-1)		IC RSS210, RSS GEN, RSS-102 IC-ID: 7188C-WSM0001
Pollution degree Degree of protection	3 (IEC 6Ó664/60664A; 60947-1) IP66	CE-marking	EN12445, EN12453, EN12978 Radio Equipment and
Rated insulation voltage	50 VDC		Telecommunications
Temperature Operating Temperature Storage Temperature	-25° to +55°C (-13° to +131°F) -40° to +70°C (-40° to +158°F)		Terminal Equipment (R&TTE) Directive 1999/5/EC Low Voltage Directive
Size	75 x 35 x 125 mm		2006/95/EC Electromagnetic Compatibility
Material Housing Top	Light Grey ABS Light Grey ABS		Directive 2004/108/EC Machinery Directive 2006/42/EC, amended by
Weight	230 g		Directive 98/79/EC
Approvals	cULus UL508 FCC port 15 B,C FCC-ID: Y55WSM0001		For industrial doors only See EN13241-1

NOTE: Changes/modifications not approved by Carlo Gavazzi could void the user's authority to operate the equipment.

Specifications Sub Controller (WSS)

Rated operational volt. (U_B)	1 to 4 ER14505 3.6 VDC size AA Lithium batteries ≥ 2700 mAh	Environmental Installation category
Supply current	< 40 mA	Pollution degree
Communication Frequency	2.4 GHz Duplex	Degree of protection
Number of channels	16 selectable on DIP switch	Degree of protection Rated insulation volta
Sub Controller live time	10 – 80 Sec. Selectable on DIP-switches at the main controller	Temperature Operating Temperature Storage Temperature
ESPE inputs		Size
ESPE NC ESPE NO 8.2 k 0 Photoelectric ESPE Door in door input	Standard NC ESPE Standard NO, 8.2 k Ω Carlo Gavazzi Low current ESPE PES for wireless applications NC input from Limit Switch	Material Housing Bottom Weight Approvals
Response time		rippioraio
OFF-ON (ton) ON-OFF (toff)	≤ 120 mS ≤ 120 mS	
Wake time after sleep mode	≤ 400 mS	
Protection	Reverse polarity	
Indications Sub Controller ESPE 1 ESPE 2	Yellow LED Yellow LED shines in 20 sec. after a short activation on the pushbutton	CE-marking
Test input	The submodule wakes up after the test input of the main controller	
Antenna	Built in	

Environmental Installation category	III (IEC 60664/60664A;	
Pollution degree	60947-1) 3 (IEC 60664/60664A; 60947-1)	
Degree of protection	IP66	
Rated insulation voltage	50 VDC	
Temperature Operating Temperature Storage Temperature	-25° to +55°C (-13° to +131°F) -40° to +70°C (-40° to +158°F)	
Size	22 x 45 x 214 mm	
Material Housing Bottom	Light Grey PC Black PC	
Weight	220 g	
Approvals	cULus UL508 FCC port 15 B,C FCC-ID: Y55WSM0001 IC RSS210, RSS GEN, RSS-102 IC-ID: 7188C-WSM0001	
CE-marking	EN12445, EN12453, EN12978 Radio Equipment and Telecommunications Terminal Equipment (R&TTE) Directive 1999/5/EC Low Voltage Directive 2006/95/EC Electromagnetic Compatibility Directive 2004/108/EC Machinery Directive 2006/42/EC, amended by Directive 98/79/EC For industrial doors only See EN13241-1	

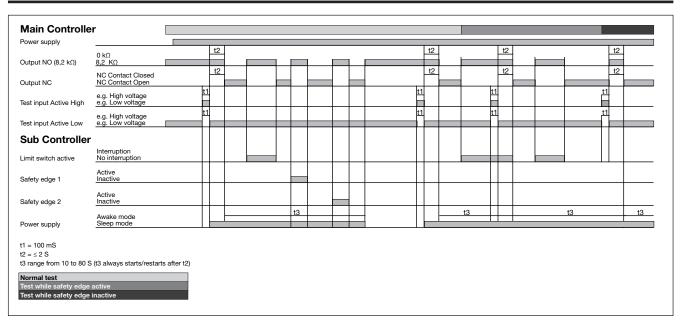
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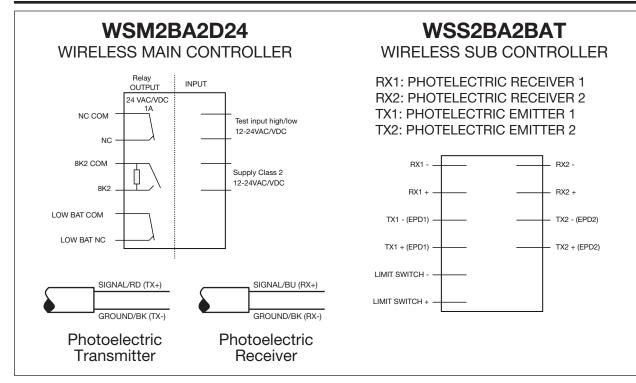
Specifications Photoelectric Sensors ESPE (PB11)

Rated operational volt. ($U_{\rm B}$)	From Sub Controller	Degree of protection	IP67
Rated operational dist. (S _n)	15 m	Housing size	Ø11 x 24.5 mm
Light source	LED 880 nm	Housing Material	PA6 Glass reinforced
Light Type	Infrared Modulated	UL-Approvals	UL508
Ambient light	>20,000 lux	CE-marking	EN12978

Operation Diagram

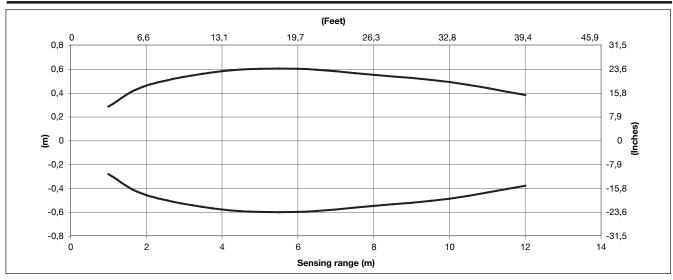


Wiring Diagrams

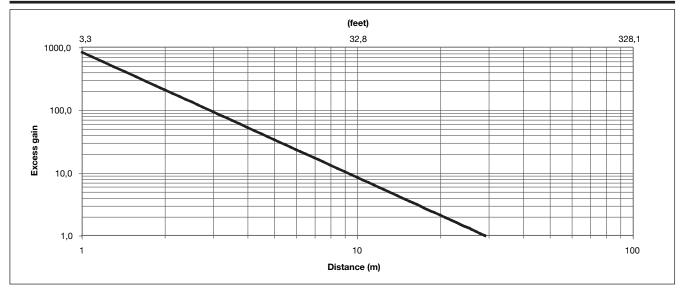




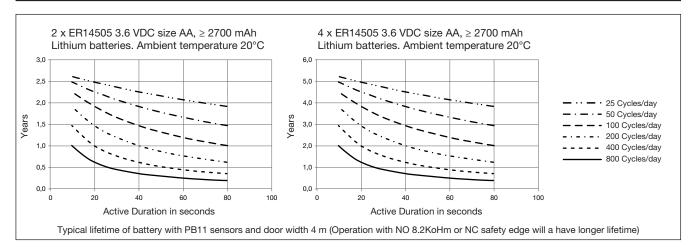
Detection Diagram



Excess Gain

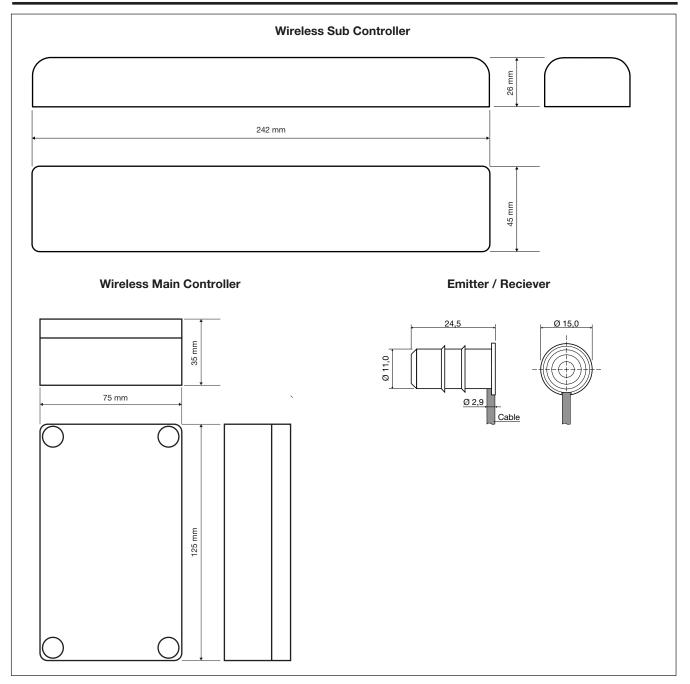


Battery Lifetime





Dimensions



Delivery Contents Main Controller

- Wireless Main Controller: WSM2BA2D24
- Manual
- 4 x SCREW M4.5X45 MM BOSSARD BN615
- 4 x RAWLPLUG SX8 NYLON
- Packaging: Cardboard box

Delivery Contents Receiver

- Receiver: PB11CNT15WR
- Packaging: Plastic bag

Delivery Contents Sub Controller

- Wireless Sub Controller: WSS2BA2BAT
- Manual
- 2 x ER14505 3.6 VDC size AA \geq 2700 mAh Lithium batteries
- 4 x SCREW M4X10 MM BOSSARD BN1023
- Packaging: Cardboard box

Delivery Contents Emitter

- Emitter: PB11CNT15WE
- Packaging: Plastic bag

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