



Zone 1/21 Microwave Motion Sensors and Photocells

Oct 2022

Motion Detector



MWS-Ex

IP 66

Application: Microwave motion sensor for hazardous area

Body: Aluminium alloy with powder paint finish

Diffuser: Borosilicate glass

Mounting: Ceiling (up to 6m)/Wall mounted

ATEX certified: Zone 1/21

II 2G Ex d IIC T6 Gb

II 2D Ex tb IIIC T85°C Db IP66 IK08

AmbT: -35°C to +55°C

Voltage: 220-240V AC

Switching load: 400W (Zero crossing detection circuit)

Motion detection sensitivity: 0.3...3m/s with synchronised control

Control: - Sensitivity control up to 12m dia. (Adjustable)
 - Adjustable ON/OFF timer, 5s - 30min
 - Photocell: Freely adjustable threshold

Termination: L, Ls, Nx2, PE; max. 4mm²
 Loop in/Loop out

Entries: 3 x M25

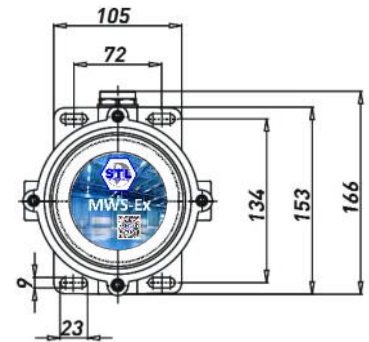
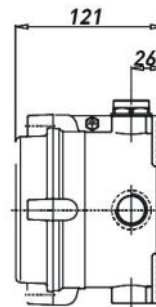
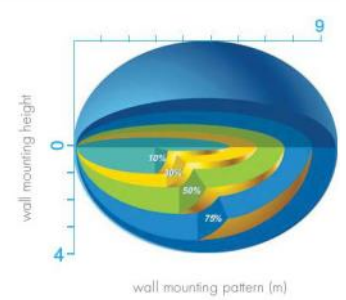
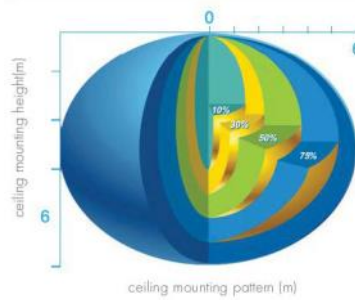
Weight: 2kg

Optional:

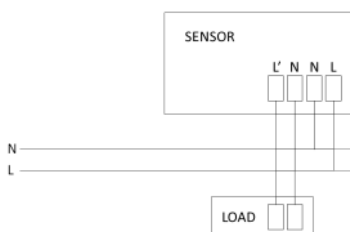
- Adjustable mounting bracket



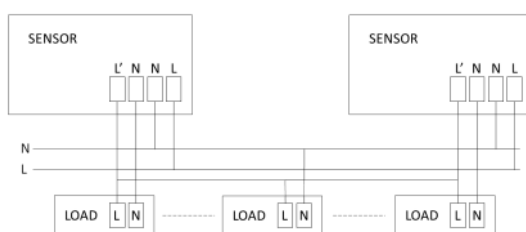
Detection Pattern



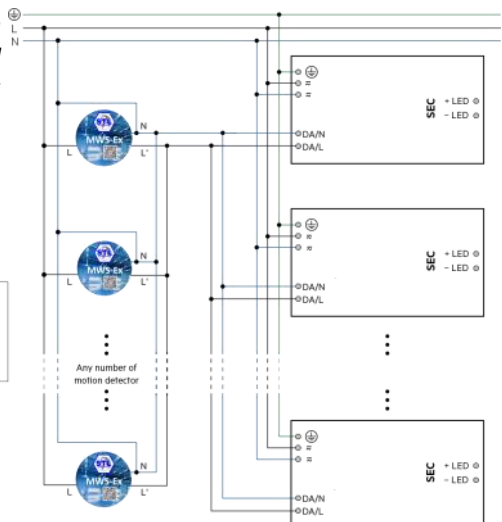
ON/OFF Function



Synchronised Control Function



corridorFunction with DALI controlled luminaires



High-bay Motion Detector



MWS-Ex-12

IP 66

Application: High-bay microwave motion sensor for hazardous area installations.

Body: Aluminium alloy with powder paint finish

Diffuser: Borosilicate glass

Mounting: Ceiling (up to 12m)/Wall mounted

ATEX certified: Zone 1/21

II 2G Ex d IIC T6 Gb

II 2D Ex tb IIIC T85°C Db IP66 IK08

AmbT: -35°C to +55°C

Voltage: 220-240V AC

Switching load: 400W (Zero crossing detection circuit)

Motion detection sensitivity: 0.3...3m/s with synchronised control

Control: - Sensitivity control up to 12m dia.(Adjustable)
 - Adjustable ON/OFF timer, 5s - 30min
 - Photocell: Freely adjustable threshold

Termination: L, Ls, Nx2, PE; max. 4mm²
 Loop in/Loop out

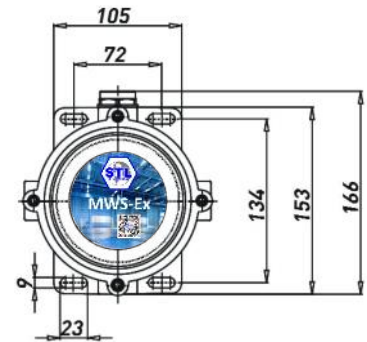
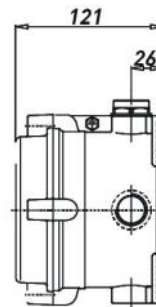
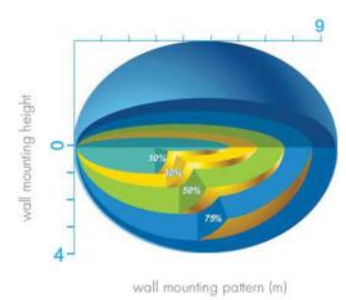
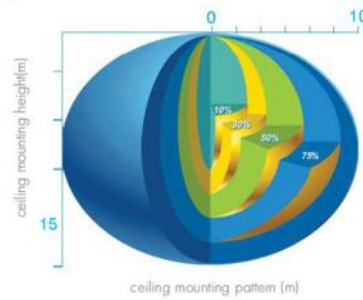
Entries: 3 x M25

Weight: 2kg

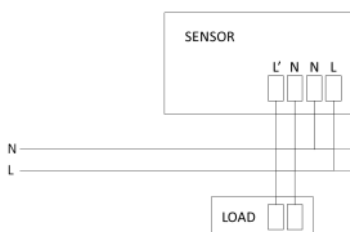
Optional:

- Adjustable mounting bracket

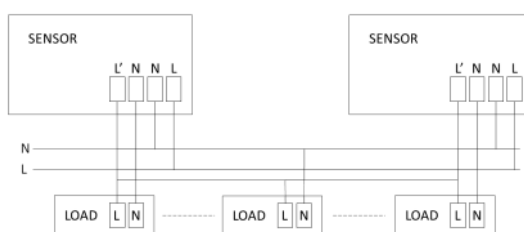
Detection Pattern



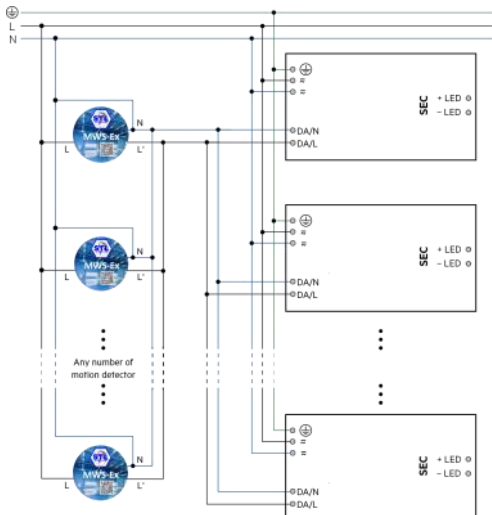
ON/OFF Function



Synchronised Control Function



corridorFunction with DALI controlled luminaires



Motion Detector



MWS-Ex-DA

IP 66

Application: Microwave DALI motion sensor for hazardous area.

Body: Aluminium alloy with powder paint finish

Diffuser: Borosilicate glass

Mounting: Ceiling (6m)/Wall mounted

ATEX certified: Zone 1/21

II 2G Ex d IIC T6 Gb

II 2D Ex tb IIIC T85°C Db IP66 IK08

AmbT: -35°C to +55°C

Voltage: 9.5-22.5Vdc, 12mA (DALI)

Motion detection sensitivity: 0.3...3m/s with synchronised control

Control: DALI (PC), DIP switches or Handset (safe area only)

- Sensitivity control up to 12m dia.(Adjustable)
- Adjustable ON/OFF timer, 5s - 30min
- Photocell: Freely adjustable threshold

Termination: DA, DA; max. 4mm²
Loop in/Loop out

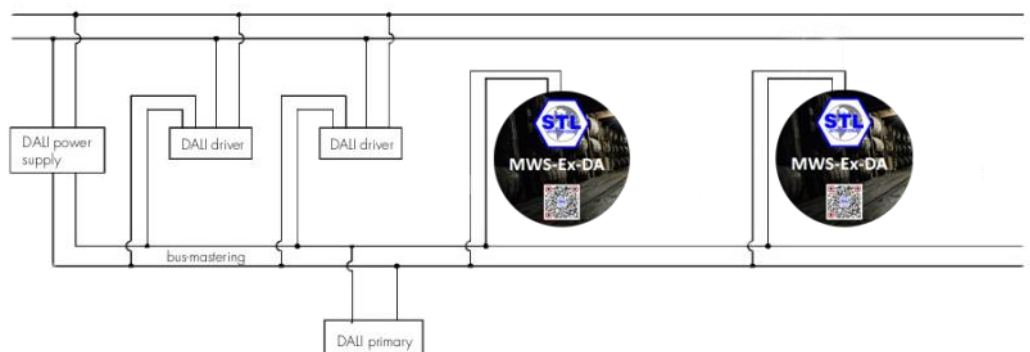
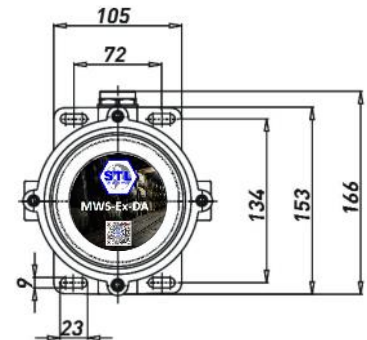
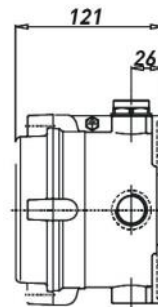
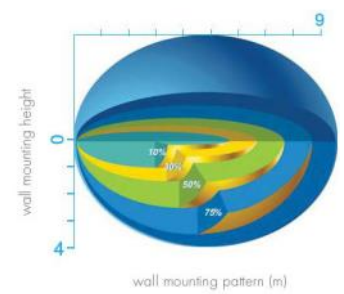
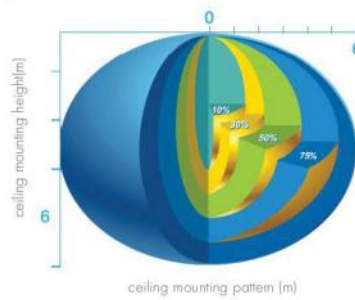
Entries: 3 x M25 (1 x plugged)

Weight: 2kg

Optional:

- Adjustable mounting bracket

Detection Pattern



High-bay Motion Detector



MWS-Ex-12-DA2

IP 66

Application: High-bay microwave motion sensor for hazardous area. The sensor is certified as a **DALI-2** input device with daylight sensor instance and HF motion sensor instance.

Body: Aluminium alloy with powder paint finish

Diffuser: Borosilicate glass

Mounting: Ceiling (up to 12m)/Wall mounted

ATEX certified: Zone 1/21

II 2G Ex d IIC T6 Gb

II 2D Ex tb IIIC T85°C Db IP66 IK08

AmbT: -35°C to +55°C

Voltage: 220-240VAC 50/60Hz

Current consumption: Max. 2mA from DALI bus

Motion detection sensitivity: 0.3...3m/s with synchronised control

Output: DALI-2 command (Light sensor instance and Motion sensor instance)

Control: DALI-2 application controller compatible with IEC62386_303, 304

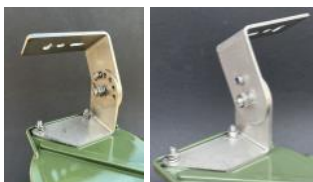
Termination: L, N, PE, DA, DA; max. 4mm² Loop in/Loop out

Entries: 3 x M25 (1 x plugged)

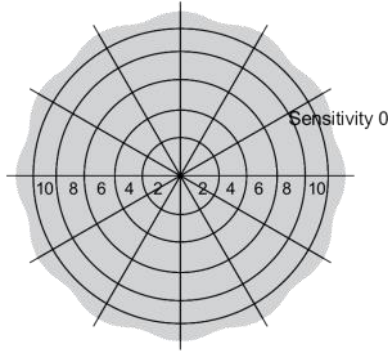
Weight: 2kg

Optional:

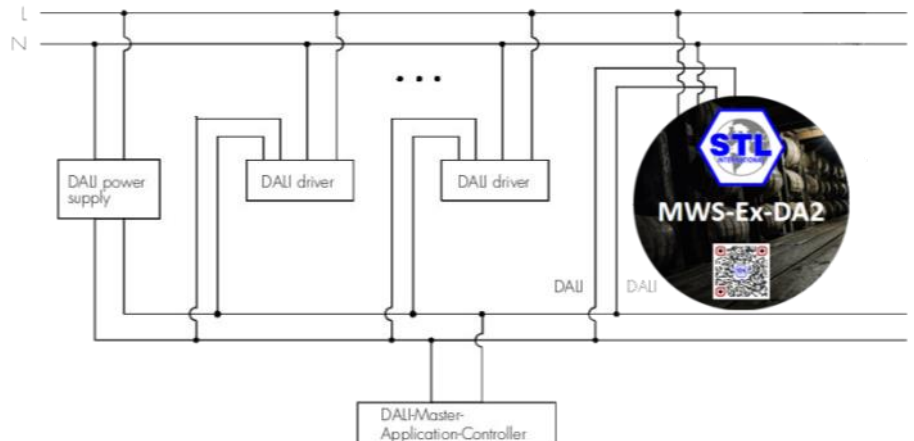
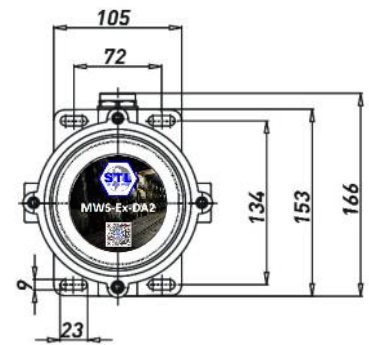
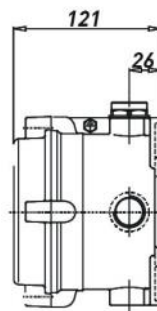
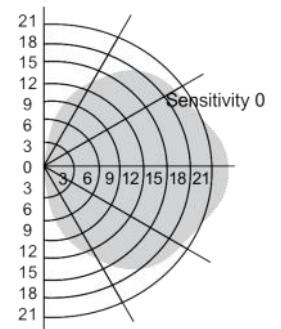
- Adjustable mounting bracket



Ceiling Pattern (Unit: m)
Installation Height: 10m



Wall Pattern (Unit: m)
Installation Height: 10m





Photocell



DS-Ex

IP 66

Application: Photocell with adjustable threshold for hazardous area

Body: Aluminium alloy with powder paint finish

Diffuser: Borosilicate glass

Mounting: Ceiling/Wall mounted

ATEX certified: Zone 1/21

II 2G Ex d IIC T6 Gb

II 2D Ex tb IIIC T85°C Db IP66 IK08

AmbT: -35°C to +55°C

Voltage: 220-240V AC

Switching load: 400W (Capacitive) or 800W (Resistive)

Control: Adjustable threshold (DIP switches)

2, 10, 30, 50 (Default), 100, 300, 500 Lux

Termination: L, Ls, Nx2, PE; max. 4mm²
Loop in/Loop out

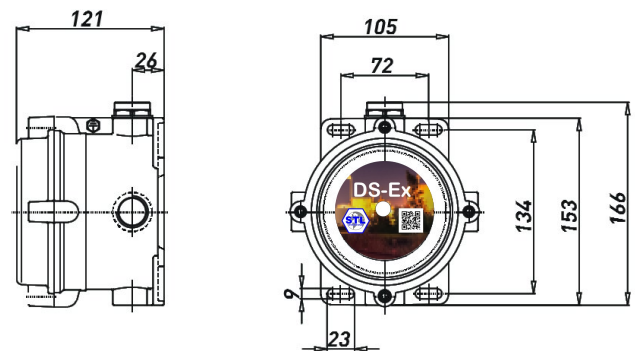
Entries: 3 x M25

Weight: 2kg

Optional:

- 12Vdc, 24Vdc, 48Vdc

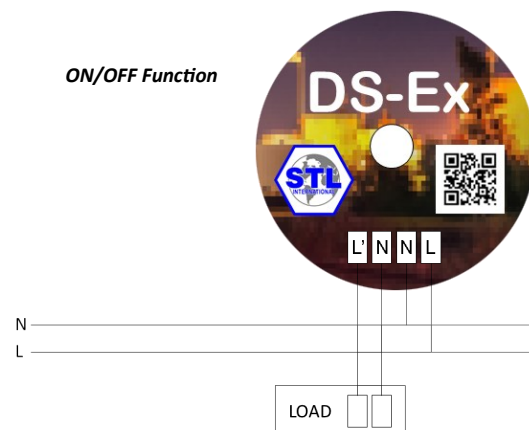
- Adjustable mounting bracket



Daylight Threshold

	1	2	3	4	5	6			1	2	3	4	5	6		
I	●	●	●	●	●	●	Disable		V	○	○	○	○	○	○	50 Lux
II	●	○	○	○	○	○	2 Lux		VI	○	○	○	○	○	○	100 Lux
III	○	●	○	○	○	○	10 Lux		VII	○	○	○	○	○	○	300 Lux
IV	○	○	●	○	○	○	30 Lux		VIII	○	○	○	○	○	○	500 Lux

ON/OFF Function





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