MWS3A

PATENTED DESIGN

Head can be angled to suit the detection pattern required

IP40

Unlike fixed head microwave detectors the MWS3A offers a unique presence/absence detection capability by using an adjustable head.

This incorporates an innovative locking mechanism to prevent tampering. By changing the angle of the head, different detection patterns can be achieved to suit the application. An integral sensitivity adjustment allows the detector to be fine tuned to its environment. The detector is self contained and can be flush or surface mounted using a separate detector back box.

Key Product Features

Unique adjustable head design

Locking mechanism to prevent tampering

Can be flush or surface mounted

IP40 rated

Switching Detectors

PRM version functionality   PRM

Switching with lux level sensing (IR handset adjustment)

Active photocell

Time delay function

Presence detection switching

Absence detection switching

Programmable via IR handset

Adjustable detection sensitivity

On/off override via optional IR handset

Manual on/off override via switch input

Dimming Detectors

DD and AD version functionality (in addition to PRM)

Dimming functionality

Two channel flexibility

Step-down illuminance

Maintained illuminance (daylight harvesting)

Burn in feature for fluorescent tubes

Control of DALI, DSI or 1–10V loads depending on product

Integral relay to reduce parasitic power

Suitable for all lighting types
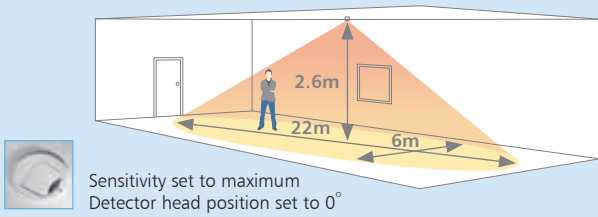
Manual dimming with IR

Manual dimming with switch inputs

Selected switching detectors are available with the following options

Low voltage 12–24V AC/DC

Voltage free contact

2 channel

2 channel normally closed for fail-safe applications
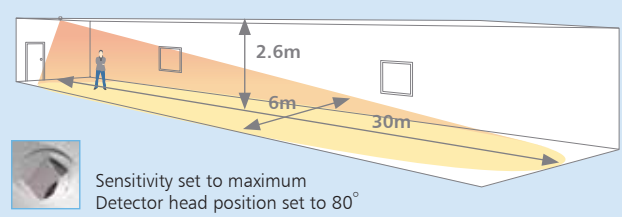
Contact our sales office for the variants available

KNX

Detection Pattern – e.g. mid-sized office

2.6m
22m
6m

Sensitivity set to maximum
Detector head position set to 0°

Detection Pattern – e.g. corridors

2.6m
6m
30m

Sensitivity set to maximum
Detector head position set to 80°

Detection Pattern – e.g. large office or classroom

2.6m
25m
6m

Sensitivity set to 80%
Detector head position set to 40°

Area of high sensitivity   Area of lower sensitivity

Dimensions

85
92

Adjustment 0°-90°

All dimensions in mm

Order Code	Description	Load Rating at 230VAC					Time Delay
		R	**I**	**F**	**CF**	**LED**	
MWS3A-PRM	Adjustable head ceiling mounted microwave presence/absence detector	10A	10A	10A	10A	10A	10s–99m
MWS3A-PRM-L3	Adjustable head ceiling mounted microwave presence detector with 3m lead	10A	10A	10A	10A	10A	10s–99m
MWS3A-PRM-LV	Adjustable head ceiling mounted microwave presence/absence detector 12–24V AC/DC	10A	8A	6A	3A	3A	10s–99m
MWS3A-PRM-VFC	Adjustable head ceiling mounted microwave presence/absence detector with volt free contact*	6A	6A	6A	3A	3A	10s–99m
MWS3A-DD	Adjustable head ceiling mounted microwave presence/absence detector with Direct Dim DALI/DSI (up to 20 ballasts)	10A	10A	10A	10A	10A	10s–99m
MWS3A-DD-LV	Adjustable head ceiling mounted microwave presence detector with Direct Dim DALI/DSI 12–24V AC/DC	10A	8A	6A	3A	3A	10s–99m
MWS3A-AD	Adjustable head ceiling mounted microwave presence/absence detector with 1–10V Analogue dimming output (up to 10 ballasts)	10A	10A	10A	10A	10A	10s–99m
MWS3A-AD-LV	Adjustable head ceiling mounted microwave presence detector with 1–10V analogue dimming output 12–24V AC/DC	10A	10A	10A	10A	10A	10s–99m

PRM

Product variants are available where a different regional frequency is required.

R = Resistive   **I** = Incandescent   **F** = Fluorescent   **CF** = Compact Fluorescent

Accessories	Description
UNLCDHS	Professional commissioning LCD programming handset. See page 16
UHS5	Commissioning handset. See page 15
UHS7	User handset. See page 15
MWS3A-DBB	Surface mount back box
MWS3A-DBB-WBRKT	Wall mounting bracket for MWS3A series
MWS3A-VPPC	Wall mounted clear protective cover. Use in conjunction with the wall mounting bracket
MWS3A-DBB-EXT	Surface mount back box extender

* Please supply voltage requirement

KNX Selected KNX versions also available. See page 45

MWS5

PATENTED DESIGN

IP40

The MWS5 range is a miniature microwave presence/absence detector.

A flush fit ceiling clip allows the detector head to be mounted into a ceiling tile; alternatively the detector head can be mounted either on the wall, ceiling or within a suitable luminaire using the surface mount base plate. The power supply unit can be mounted remotely for easy access. The MWS5 has a compact head size, is simple to set up and easy to adjust.

Key Product Features

Compact unobtrusive design

Can be flush or surface mounted

Remote power supply allows head to be fitted in confined spaces

IP40 rated

Switching Detectors

PRM version functionality   PRM

Switching with lux level sensing (IR handset adjustment)

Active photocell

Time delay function

Presence detection switching

Absence detection switching

Programmable via IR handset

Adjustable detection sensitivity

On/off override via optional IR handset

Manual on/off override via switch input

Dimming Detectors

DD and AD version functionality (in addition to PRM)

Dimming functionality

Two channel flexibility

Step-down illuminance

Maintained illuminance (daylight harvesting)

Burn in feature for fluorescent tubes

Control of DALI, DSI or 1—10V loads depending on product

Integral relay to reduce parasitic power

Suitable for all lighting types

Manual dimming with IR

Manual dimming with switch inputs

Selected switching detectors are available with the following options

Low voltage 12—24V AC/DC

Voltage free contact

Contact our sales office for the variants available
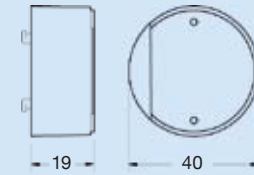
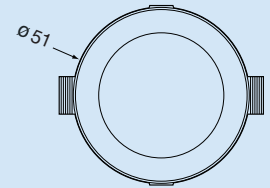*i* *Learn more about detector types on pages 10–14*

Detection Pattern
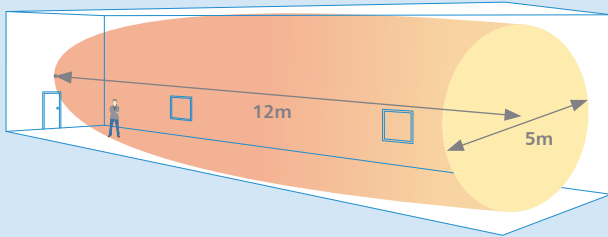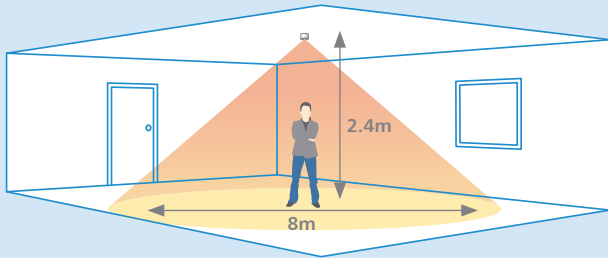
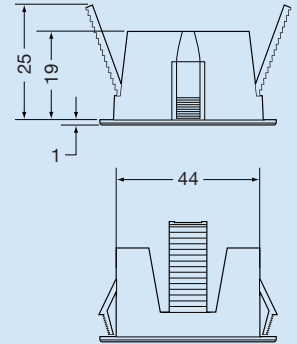Area of high sensitivity / Area of lower sensitivity
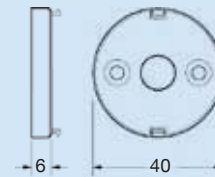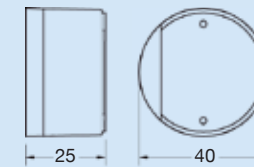
Dimensions

Sensor

Flush Ring
ø51

Surface Mount Base Plate

Sensor + Base Plate

All dimensions in mm

	Order Code	Description	Load Rating at 230VAC					Time Delay
			R	I	F	CF	LED	
PRM	MWS5-PRM-SA-C	Compact microwave presence/absence detector c/with pre-wired power supply unit (PSU)	6A	6A	6A	3A	3A	10s–99m
	MWS5-DD-SA-C	Compact microwave presence/absence detector with Direct Dim DALI/DSI c/with pre-wired PSU (up to 10 ballasts)	6A	6A	6A	3A	3A	10s–99m
	MWS5-AD-SA-C	Miniature microwave Direct Dim Analogue 1–10V standalone complete kit	6A	6A	6A	3A	3A	1m-30m

Product variants are available where a different regional frequency is required.   **R** = Resistive   **I** = Incandescent   **F** = Fluorescent   **CF** = Compact Fluorescent

What's in the Box

Compact microwave detector
Power supply unit
Surface mount base plates
Flush ring

Accessories	Description
UNLCDHS	Professional commissioning LCD programming handset. See page 16
UHS5	Commissioning handset. See page 15
UHS7	User handset. See page 15

MWS6

PATENTED DESIGN

IP40

The MWS6 is a low profile microwave presence/absence detector for the automatic control of lighting, heating and ventilation.

This flush design means it can be mounted into a ceiling tile. Its reduced head size makes it unobtrusive to occupants.

Key Product Features

Low profile design
Self contained unit
Pluggable
IP40 rated

Switching Detectors

PRM version functionality	PRM
Switching with lux level sensing (IR handset adjustment)	
Active photocell	
Time delay function	
Presence detection switching	
Absence detection switching	
Programmable via IR handset	
Adjustable detection sensitivity	
On/off override via optional IR handset	
Manual on/off override via switch input	

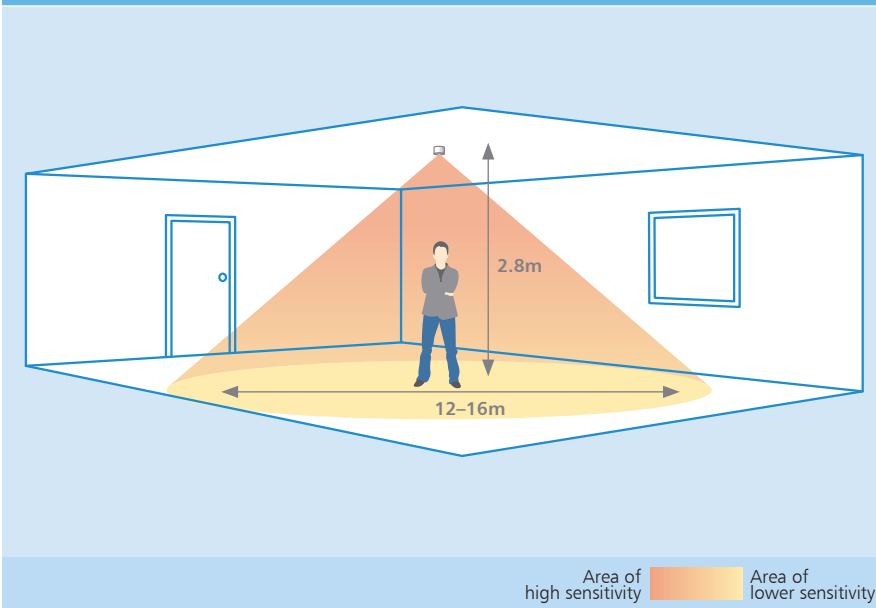## Dimming Detectors

DD and AD version functionality (in addition to PRM)	
Dimming functionality	
Two channel flexibility	
Step-down illuminance	
Maintained illuminance (daylight harvesting)	
Burn in feature for fluorescent tubes	
Control of DALI, DSI or 1–10V loads depending on product	
Integral relay to reduce parasitic power	
Suitable for all lighting types	
Manual dimming with IR	
Manual dimming with switch inputs	

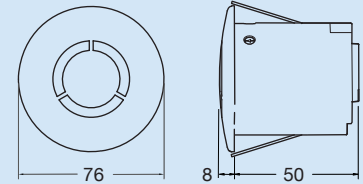| Selected switching detectors are available with the following options |
|---|
| Low voltage 12–24V AC/DC |
| Voltage free contact |
| 2 channel |
| 2 channel normally closed for fail-safe applications |
| Contact our sales office for the variants available |

i **Learn more about detector types on pages 10–14**

KNX® Selected KNX versions also available. See page 45

Detection Pattern

2.8m

12–16m

Area of high sensitivity

Area of lower sensitivity

Dimensions

76   8   50

All dimensions in mm

	Order Code	Description	Load Rating at 230VAC					Time Delay
			R	I	F	CF	LED	
PRM	**MWS6-PRM**	Low profile microwave presence/absence detector	10A	10A	10A	10A	10A	10s–99m
	MWS6-PRM-LV	Low profile microwave presence/absence detector 12–24V AC/DC	10A	8A	6A	3A	3A	10s–99m
	MWS6-PRM-VFC	Low profile microwave presence/absence detector with volt free contact*	6A	6A	6A	3A	3A	10s–99m
	MWS6-PRM-2CH	Low profile microwave presence/absence detector 2-channel	6A	6A	6A	6A	6A	10s–99m
	MWS6-DD	Low profile microwave presence/absence detector with Direct Dim DALI/DSI (up to 20 ballasts)	10A	10A	10A	10A	10A	10s–99m
	MWS6-AD	Low profile microwave presence/absence detector with Analogue 1–10V analogue dimming output (up to 10 ballasts)	10A	10A	10A	10A	10A	10s–99m

Product variants are available where a different regional frequency is required.　　**R** = Resistive　　**I** = Incandescent　　**F** = Fluorescent　　**CF** = Compact Fluorescent

Accessories	Description
UNLCDHS	Professional commissioning LCD programming handset. See page 16
UHS5	Commissioning handset. See page 15
UHS7	User handset. See page 15

* Please supply voltage requirement

KNX® Selected KNX versions also available. See page 45

MWS6SM

PATENTED DESIGN

IP40

The MWS6M is a surface mounted mid-range microwave presence/absence detector for the automatic control of lighting, heating and ventilation.

The MWS6SM detects movement using a highly sensitive microwave detector.

Key Product Features

Surface mounted
IP40 rated
Self contained unit
Easy to install via a back plate

Switching Detectors

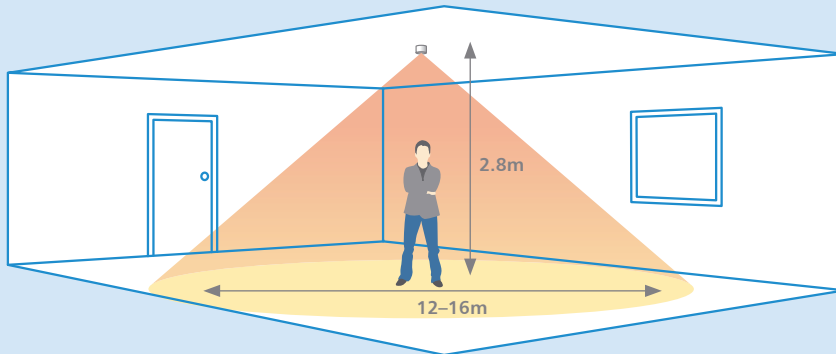| PRM version functionality	PRM
Switching with lux level sensing (IR handset adjustment)	
Active photocell	
Time delay function	
Presence detection switching	
Absence detection switching	
Programmable via IR handset	
Adjustable detection sensitivity	
On/off override via optional IR handset	
Manual on/off override via switch input	

Dimming Detectors

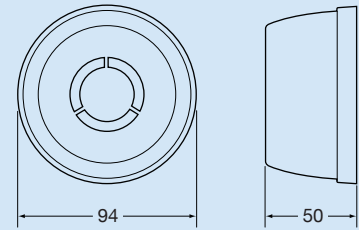| DD and AD version functionality (in addition to PRM)	
Dimming functionality	
Two channel flexibility	
Step-down illuminance	
Maintained illuminance (daylight harvesting)	
Burn in feature for fluorescent tubes	
Control of DALI, DSI or 1—10V loads depending on product	
Integral relay to reduce parasitic power	
Suitable for all lighting types	
Manual dimming with IR	
Manual dimming with switch inputs	

ⓘ Learn more about detector types on pages 10–14

Detection Pattern

2.8m

12–16m

Area of high sensitivity | Area of lower sensitivity

Dimensions

94   50

All dimensions in mm

	Order Code	Description	Load Rating at 230VAC					Time Delay
			R	I	F	CF	LED	
PRM	MWS6SM-PRM	Surface mounted microwave presence/absence detector with lux level sensing	10A	10A	10A	10A	10A	10s–99m
	MWS6SM-DD	Surface mounted microwave presence/absence detector with Direct Dim DALI/DSI (up to 20 ballasts)	10A	10A	10A	10A	10A	10s–99m
	MWS6SM-AD	Surface mounted microwave presence detector with 1–10V analogue dimming output (up to 10 ballasts)	10A	10A	10A	10A	10A	10s–99m

Product variants are available where a different regional frequency is required.   **R** = Resistive   **I** = Incandescent   **F** = Fluorescent   **CF** = Compact Fluorescent

Accessories	Description
UNLCDHS	Professional commissioning LCD programming handset. See page 16
UHS5	Commissioning handset. See page 15
UHS7	User handset. See page 15

MWS1A-C

PATENTED DESIGN

IP66

This discrete series of wall or ceiling mounted microwave presence detectors are designed to fit onto any single gang switch box.

There are two detection ranges available — either 30 metres, which is ideal for wall mounting, or 10 metres suitable for ceiling mounting. Both detectors can be configured via one of our programming handsets. IP66 versions are also available for use in damp and wash down areas.

Key Product Features

Unobtrusive design — vandal resistant
Built in lux level sensing — enhanced energy saving
Fixing screw cap covers — smooth plate finish
Low voltage and volt free options — suitable for BMS and other control applications
Low power in off state — minimal parasitic power
User control — facility for override if required

ℹ️ *Learn more about detector types on pages 10–14*

	Order Code	Description	Supply Voltage	Load Rating at 230VAC					Time Delay
				R	**I**	**F**	**CF**	**LED**	
PRM	MWS1A-C-PRM	Ceiling mounted microwave presence detector	230VAC	10A	10A	10A	10A	10A	10s–99m
	MWS1A-C-IP-PRM	Moisture-proof ceiling mounted microwave presence detector (IP66)	230VAC	10A	10A	10A	10A	10A	10s–99m
	MWS1A-C-PRM-LV	Ceiling mounted microwave presence detector — low voltage	11.5VDC–36VDC 10VAC–26.5VAC	16A	10A	10A	10A	10A	10s–99m
	MWS1A-C-IP-PRM-LV	Moisture-proof ceiling mounted microwave presence detector — low voltage (IP66)	11.5VDC–36VDC 10VAC–26.5VAC	16A	10A	10A	10A	10A	10s–99m
	MWS1A-C-PRM-VFC	Ceiling mounted microwave presence detector — volt free contact*	230VAC	6A	3A	3A	3A	3A	10s–99m
	MWS1A-C-IP-PRM-VFC	Moisture-proof ceiling mounted microwave presence detector — volt free contact* (IP66)	230VAC	6A	3A	3A	3A	3A	10s–99m

Product variants are available where a different regional frequency is required.   **R** = Resistive   **I** = Incandescent   **F** = Fluorescent   **CF** = Compact Fluorescent

Accessories		Description
	UNLCDHS	Professional commissioning LCD programming handset. See page 16
	UHS5	Commissioning handset. See page 15
	UHS7	User handset. See page 15

* Please supply voltage requirement