### TI5861en

### **Technical Information**

### MRC2- Series (M)

Ceiling Motion Switch with ON/OFF Output



The MRC2- Series (M) is designed for motion detection in rooms and spaces

The motion sensor is mounted on ceiling

The sensor works with low power supply

Multiple detection Ranges available

Sensor based on Passive Infrared (PIR) Technology



Motion sensor output is ON/OFF MRC2.AA MRC2.BA MRC2.CA

	Compatible with all common HVAC DDC and Analog Controls systems, with/without Building Automation Systems				
ø.	Motion detection in Buildings and Spaces				
Use	Used in all common HVAC applications				
	Used in Commercial and Industrial Buildings				
	Motion switch with passive output				
	Ceiling mounted				
ures	Passive Infrared (PIR) sensing element				
Features	Multiple detection ranges available				
	Professional and practical product design, withstands rough environmental conditions				
	Easy to use, install and maintain				

nge	Model	Power Supply	Output	Detection Specifications	Detection Range	Cable Lengths	Protection
	MRC2.AA	\38: (%0)	24V 1A (resistive), Normally Open (NO)	max. 10m / horizontal detection angle 110º / Vertical detection angle 93º	Standard / appr. 7.1 x 5.3m@2.5m Height	100mm	IP20 to IEC60529
Product Range	MRC2.BA			max. 5m / horizontal detection angle 100° / Vertical detection angle 82°	Small Range / appr. 6 x 4.3m@2.5m Height		
	MRC2.CA	AC/		max. 5m / horizontal detection angle 22º / Vertical detection angle 38º	Spot Range / appr. 1 x 1.7m@2.5m Height		

	Sensor Specification	Measured	Motion detection
ation		Sensor Characteristics	Passive, 4-segment PIR
ecific		Sensor Output (s)	NO Relay, max. 24V DC / 1A
Sensor Specification		Switch OFF delay	8 sec.
Sens		Accuracy	N/A
		Measuring Range (s)	Refer drawings
	Electrical Information	Power Supply	AC/DC 24V (±10%) ; SELV
		Frequency	50/60 Hz at AC 24V
		Terminal Clamp	Screw terminal, max. 1.5mm²
		Power Consumption	24V; 0.15W / 0.5VA
	Mechanical Information	Cable Entry	N/A
		Sensing Element Position	Inside lens
	User Interface	n.a.	n.a.
	Color and Materials	Housing Cover	ABS, RAL 9010 (Pure white)
		Housing Bottom	ABS, RAL 9010 (Pure white)
	Environmental Conditions	Operation Temperature	-20+50°C
		Operation Humidity	<85% r.h., no condensation
		Transport Temperature	-35+70°C
u		Transport Humidity	<90% r.h.
Technical Information		Storage Temperature	-20+70°C
l Info		Storage Humidity	< 85% r.h., no condensation
hnica	Norms and Directives	Protection Rating	IP20 to IEC60529
Tec		Safety Class	III to EN 60730
		Product Standard 1	Automatic Electrical Controls for household and similar use
		Product Standard 2	2009/EN 60 730-1
		CE Conformities to	2004/108/EG Electromagnetic Compatibility EM\
		CE Electromagnetic Compatibility Emitted Interference	2000/EN60730-1 Emitted Interference
		CE Electromagnetic Compatibility Interference resistance	2000/EN60730-1 Interference Resistance
		RoHS Compatibility	RoHS 3, Directive 2015/863
		Operation Climatic Condition	IEC60721-3-3
		Operation Mechanical Condition	IEC60721-3-3
		Transport Climatic Condition	IEC60721-3-2
		Transport Mechanical Condition	IEC60721-3-2
		Storage Climatic Condition	IEC60 721-3-1
		Storage Mechanical Condition	IEC60 721-3-1
	Accessories	Accessory in delivery	n.a.
aneous	Shipping & Handling	Minimum Order	Rigid Cardboards Packaging
Miscellaneous		Package Material	Rigid Cardboards Packaging
Σ	Order Notes	Order Code	See Product Range, Page 1, e.g. MRC2.AA

### **Installation Notes**



All relevant national and heavy power regulations

Other country specific regulations

Country-specific regulations

Local electrical supply authority regulations

Schematics, cable listings, dispositions, specification and arrangements from the customer or engineering office in charge

Third party specifications, e.g. general contractors or constructors

### **Mounting Advices**





### **Disposal Notes**

The device is considered an electronic device for disposal in terms of the EUROPEAN DIRECTIVE 2012/19/EU

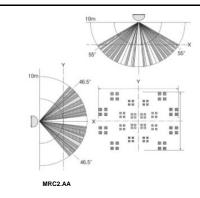


The device may not be disposed as domestic garbage

The device must be disposed through channels provided for this purpose

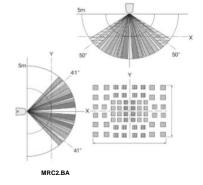
It is mandatory to complying with local currently applying laws and regulations

## **Detection Ranges**



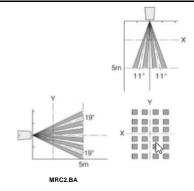
Detection Range calculation

Ø detection Range+ tan(11) 8 instalation height



**Detection Range calculation** 

Ø detection Range+ tan(11) 8 instalation height



**Detection Range calculation** 

Ø detection Range+ tan(11) 8 instalation height

### Connection

### NO- Contact NO- Contact Ground Ground AC/DC 24V

# **Dimensional Drawing**

