



TI

Technical Information**Ceiling Motion Switch****with ON/OFF Output****BELIMO**

The Series 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

MRC2.AA

MRC2.BA

MRC2.CA

Sensor based on Passive Infrared (PIR) Technology

Motion sensor output is ON/OFF

Sensor Specification	Sensor Specification	Measured	Motion detection
		Sensor Characteristics	Passive, 4-segment PIR
	Sensor Output (s)		NO Relay, max. 24V DC / 1A
	Switch OFF delay		8 sec.
	Accuracy		N/A
	Measuring Range (s)		Refer drawings
Technical Information	Electrical Information	Power Supply	AC/DC 24V ($\pm 10\%$) ; SELV
		Frequency	50/60 Hz at AC 24V
		Terminal Clamp	Screw terminal, max. 1.5mm ²
		Power Consumption	24V; 0.15W / 0.5VA
	Mechanical Information	Cable Entry	N/A
		Sensing Element Position	Inside lens
	User Interface	n.a.	n.a.
		Housing Cover	ABS, RAL 9010 (Pure white)
	Environmental Conditions	Housing Bottom	ABS, RAL 9010 (Pure white)
		Operation Temperature	-20...+50°C
		Operation Humidity	<85% r.h., no condensation
		Transport Temperature	-35...+70°C
		Transport Humidity	<90% r.h.
		Storage Temperature	-20...+70°C
		Storage Humidity	<85% r.h., no condensation
		Protection Rating	IP20 to IEC60529
	Norms and Directives	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 EMV
		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

Product Range	Model	Power Supply	Output	Detection Specifications	Detection Range	Cable Lengths	Protection
	EXT-TN-1071535	AC/DC 24V ($\pm 10\%$) ; SELV	24V 1A (resistive), Normally Open (NO)	max. 10m / horizontal detection angle 110° / Vertical detection angle 80°	Standard / appr. 16x12n@5m Height	100mm	IP20 to IEC60529

Installation Notes



All relevant national and heavy power regulations

Other country specific regulations

Country-specific regulations

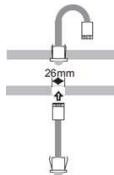
Local electrical supply authority regulations

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

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

Advices

Mounting Advices



Disposal Notes



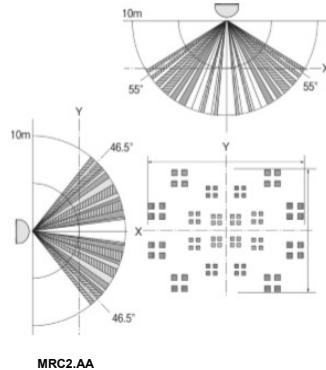
The device is considered an electronic device for disposal in terms of the EUROPEAN DIRECTIVE 2012/19/EU

The device may not be disposed as domestic garbage

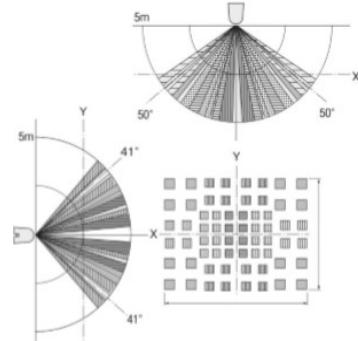
The device must be disposed through channels provided for this purpose

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

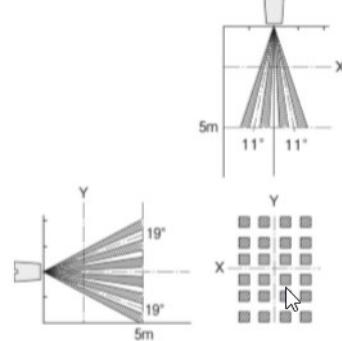
Detection Ranges



MRC2.AA



MRC2.BA



MRC2.BA

Detection Range calculation

$\varnothing \text{ detection Range} + \tan(11) \cdot 8 \text{ instalation height}$

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Connection

T1	T2	T3	T4
NO- Contact	NO- Contact	Ground	UB+ AC/DC 24V

Dimensional Drawing

