

5830e	Product Information	thermokon[®] asia pacific
CRC8-Series (L&M&T)	Ceiling Light and Motion Sensor / Switch	

The CRC8-Series (L&M&T) is designed for light measuring, motion detection and temperature sensing in rooms and spaces. The sensor has an integrated color filter (green filter) which is adapted to sensitivity of human eyes. Light sensor and temperature sensor output is active.



Use	<p>Compatible with all common HVAC DDC and Analog Controls systems, with/without Building Automation Systems</p> <p>Light measurement and motion detection in Buildings and Spaces</p> <p>Used in all common HVAC applications</p> <p>Used in Commercial and Industrial Buildings</p>
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Features	<p>Sensor with active output for light and passive output for motion detection</p> <p>With integrated color filter</p> <p>Relay switch off delay selectable</p> <p>Professional and practical product design, withstands rough environmental conditions</p> <p>Easy to use, install and maintain</p>
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Product Range	<table border="1"> <thead> <tr> <th rowspan="2">Model</th> <th colspan="3">Output</th> <th colspan="3">Measuring Range</th> <th>Motion Output</th> </tr> <tr> <th>Light</th> <th>Motion</th> <th>Temperature</th> <th>Light</th> <th>Motion</th> <th>Temperature</th> <th>Switch OFF delay</th> </tr> </thead> <tbody> <tr> <td>CRC8.BH</td> <td>0...10V</td> <td>NO Relay</td> <td>0...10V</td> <td>0...1000Lux</td> <td>D=2.8m</td> <td>0...+50°C</td> <td>1...1800 selectable</td> </tr> </tbody> </table>	Model	Output			Measuring Range			Motion Output	Light	Motion	Temperature	Light	Motion	Temperature	Switch OFF delay	CRC8.BH	0...10V	NO Relay	0...10V	0...1000Lux	D=2.8m	0...+50°C	1...1800 selectable
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All Information and technical data are subject to alteration

Sensor Specification	Sensor Specification	Measured	Light, Motion and Temperature
	Sensor Characteristics		Light Active Motion Passive, 4-segment PIR Temp Active
	Sensor Output (s)		Light 0...10V Motion NO Relay, max. 24V DC / 1A Temp 0...10V
	Switch OFF delay		1...1800sec, selectable
	Accuracy		Light ±50Lux Motion Refer drawings Temp ±5°C
	Measuring Range (s)		Light 0...1000Lux Motion D=2.8m @7m height Temp 0...+50°C
	Optiona Measuring Range (s)		N/A

Technical Information	Electrical Information	Power Supply	DC 15...24V (±10%) or AC 24V (±10%)
		Frequency	50/60 Hz at AC 24V
	Mechanical Information	Terminal Clamp	Screw terminal, max. 1.5mm ²
		Power Consumption	24V; 0.6W / 1.5VA
		Cable Entry	N/A
		Sensing Element Position	Inside housing
	User Interface		None
	Color and Materials	Housing Cover	ABS, RAL 9010 (Pure White)
		Housing Bottom	ABS, RAL 9010 (Pure White)
	Environmental Conditions	Operation Temperature	-0...+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
	Norms and Directives	Protection Rating	IP20 to IEC60529
		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 2011/65/EC
		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

Connection	Terminals Connection	<table border="1" style="text-align: center; width: 100%;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td> </tr> <tr> <td>15...24V- / 24V~</td><td></td><td></td><td>Out Light 0...10V</td><td>Out Temp 0...10V</td><td>GND</td><td>NO Relay Output 1</td><td>NO Relay Output 2</td> </tr> </table>	1	2	3	4	5	6	7	8	15...24V- / 24V~			Out Light 0...10V	Out Temp 0...10V	GND	NO Relay Output 1	NO Relay Output 2
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	Delay time adjustment for motion	<p>30min 1sec</p> <p>+ -</p> <p>Variable delay time for motion detection 1s...30min</p>																

Miscellaneous	Accessories	Accessory not included in delivery	TRA0.A
	Shipping & Handling	Minimum Order	Rigid Cardboards Packaging
		Product Dimension (L x W x H) / Weight	90mm x 85mm x 47mm / 80gr.
		Transport and Storage dimension (L x W x H) / Weight	195mm x 95mm x 65mm / 100gr.
		Package Material	Rigid Cardboards Packaging
	Order Notes	Order Code	See Product Range, Page 1, e.g. CRC8.AG

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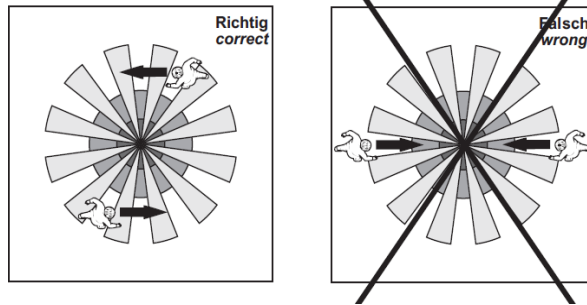
Advices

Security Advice
 Caution

The installation and assembly of electrical equipment may only be performed by a skilled electrician.
 The modules must not be used in any relation with equipment that supports, directly or indirectly, human health or life or with applications that can result in danger for people, animals or real value.

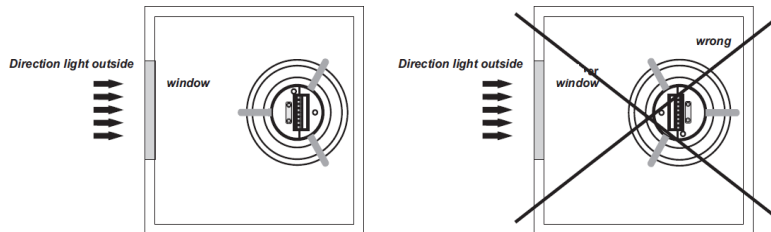
Mounting Advice
 Caution

The mounting height has a direct influence on coverage of occupancy sensor. The optimum mounting height is 2.70m. Different height will result in a change of the coverage range.
 The occupancy sensor has to be mounted on a solid ground, as every movement of the sensor leads to a faulty release.
 For an optimum occupancy detection, the sensor has to be mounted to the side of the detection range, so that the zones are cutted as rectangular as possible. Installation places, where the detected objects move straightly to the occupancy sensor, result in a coverage range.considerable reduced



Installation Notes
 Caution

Mounted with screws and wall plugs onto a smooth wall surface. For wiring, the snap-on lid must be separated from the base plate.
 The sensor should not be covered by curtains, doors or furnitures.
 In order to avoid any faulty releases, sources of interferences such as heat radiators, lamps, air exits of air-conditioning systems etc. should be installed outside the detection range. In addition, direct sun raditation should be avoided.



Commissioning Notes
 Caution

Sensing devices with transducers should in principle be operated in the middle of the measuring range.
 The ambient temperature of the transducer electronics should be kept constant.
 When switching the supply voltage on/off, power surges must be avoided on site.
 Movement detection is indicated by lighting of status-led for 2 seconds. Notice: The behaviour of the status-led is independent of the current used delay time of the relay output. During reset of the device (power up) the status-led and the relay output are switched on for approx. 45 seconds.

Dimensions

