


5100e	Product Information	
LRW1-Series (L)	Room Light Sensor	

The LRW1-Series (L) is designed for light measuring in rooms and spaces. The sensor have an integrated color filter (green filter) which is adapted to the sensitivity of human eyes. Light sensor output is active.



Use	Compatible with all common HVAC DDC and Analog Controls systems, with/without Building Automation Systems Light measuring in Buildings and Spaces Used in all common HVAC applications Used in Commercial and Industrial Buildings													
Features	Sensor with active output With integrated color filter Professional and practical product design, withstands rough environmental conditions Easy to use, install and maintain													
Product Range	<table><tr><td rowspan="2">Model</td><td colspan="2">Output</td></tr><tr><td>0...10V</td><td>4...20mA</td></tr><tr><td>LRW1.AA</td><td>●</td><td></td></tr><tr><td>LRW1.AD</td><td></td><td>●</td></tr></table>			Model	Output		0...10V	4...20mA	LRW1.AA	●		LRW1.AD		●
Model	Output													
	0...10V	4...20mA												
LRW1.AA	●													
LRW1.AD		●												

All Information and technical data are subject to alteration

Sensor Specification	Sensor Specification	Measured Sensor Characteristics Sensor Output (s) Accuracy Measuring Range (s) Optiona Measuring Range (s)	Light Active See Product Range, Page 1 ±5% of measuring range 0...2000Lux 0...20kLux / 0...100kLux																																								
Technical Information	Electrical Information Mechanical Information User Interface Color and Materials Environmental Conditions Norms and Directives	Power Supply Frequency Terminal Clamp Power Consumption Cable Entry Sensing Element Position Housing Cover Housing Bottom Operation Temperature Operation Humidity Transport Temperature Transport Humidity Storage Temperature Storage Humidity Protection Rating Safety Class Product Standard 1 Product Standard 2 CE Conformities to CE Electromagnetic Compatibility Emitted Interference CE Electromagnetic Compatibility Interference resistance RoHS Compatibility Operation Climatic Condition Operation Mechanical Condition Transport Climatic Condition Transport Mechanical Condition Storage Climatic Condition Storage Mechanical Condition	DC 15...24V (±10%) or AC 24V (±10%) 50/60 Hz at AC 24V Screw terminal, max. 1.5mm² 24V; 0.15W / 0.5VA ~30mm x 10mm on the backside Front housing None ASA, RAL 9010 (Pure white) ASA, RAL 9010 (Pure white) -20...+70°C <85% r.h., no condensation -35...+70°C <90% r.h. -20...+70°C < 85% r.h., no condensation IP30 to IEC60529 III to EN 60730 Automatic Electrical Controls for household and similar use 2009/EN 60 730-1 2004/108/EG Electromagnetic Compatibility EMV 2000/EN60730-1 Emitted Interference 2000/EN60730-1 Interference Resistance RoHS 2011/65/EC IEC60721-3-3 IEC60721-3-3 IEC60721-3-2 IEC60721-3-2 IEC60 721-3-1 IEC60 721-3-1																																								
Connection	Terminals Connection Jumper setting	<table><tr><td>1</td><td>2</td><td>3</td></tr><tr><td>15...24V- / 24V~</td><td>GND</td><td>Out 0...10V</td></tr></table> LRW1.AA <table><tr><td>1</td><td>2</td></tr><tr><td>15...24V- / 24V~</td><td>GND / Out 4...20mA</td></tr></table> LRW1.AD <table><tr><td>OFF</td></tr><tr><td><table><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td></td><td></td><td></td><td></td></tr></table></td></tr></table> <table><tr><td>Range</td><td>SW01</td><td>SW02</td><td>SW03</td><td>SW04</td></tr><tr><td>0...2kLux</td><td>ON</td><td>OFF</td><td>OFF</td><td>N/A</td></tr><tr><td>0...20kLux</td><td>OFF</td><td>ON</td><td>OFF</td><td>N/A</td></tr><tr><td>0...100kLux</td><td>OFF</td><td>OFF</td><td>ON</td><td>N/A</td></tr></table>	1	2	3	15...24V- / 24V~	GND	Out 0...10V	1	2	15...24V- / 24V~	GND / Out 4...20mA	OFF	<table><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td></td><td></td><td></td><td></td></tr></table>	1	2	3	4					Range	SW01	SW02	SW03	SW04	0...2kLux	ON	OFF	OFF	N/A	0...20kLux	OFF	ON	OFF	N/A	0...100kLux	OFF	OFF	ON	N/A	
1	2	3																																									
15...24V- / 24V~	GND	Out 0...10V																																									
1	2																																										
15...24V- / 24V~	GND / Out 4...20mA																																										
OFF																																											
<table><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td></td><td></td><td></td><td></td></tr></table>	1	2	3	4																																							
1	2	3	4																																								
Range	SW01	SW02	SW03	SW04																																							
0...2kLux	ON	OFF	OFF	N/A																																							
0...20kLux	OFF	ON	OFF	N/A																																							
0...100kLux	OFF	OFF	ON	N/A																																							
Miscellaneous	Accessories Shipping & Handling Order Notes	Accessory not included in delivery Minimum Order Product Dimension (L x W x H) / Weight Transport and Storage dimension (L x W x H) / Weight Package Material Order Code	TRA0.A Rigid Cardboards Packaging Rigid Cardboards Packaging See Product Range, Page 1, e.g. LRW1.AA																																								

All Information and technical data are subject to alteration

Thermokon Asia Pacific

LRW1-Series (L) V2.0

Page 2/3

