


5400e	Product Information	
LOW1-Series (L)	Outdoor Light Sensor	



The LOW1-Series (L) is designed for light measuring in outdoor areas, plant rooms production plants and warehouses. Light sensor output is active.

Use	<p>Compatible with all common HVAC DDC and Analog Controls systems, with/without Building Automation Systems</p> <p>Light measuring 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>Outdoor sensor for light measurement with active output</p> <p>Selectable measuring range</p> <p>Professional and practical product design, withstands rough environmental conditions</p> <p>Easy to use, install and maintain</p> <p>High precision and reliability</p>
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Product Range	<table border="1"> <thead> <tr> <th rowspan="2">Model</th> <th colspan="2">Output</th> </tr> <tr> <th>0...10V</th> <th>4...20mA</th> </tr> </thead> <tbody> <tr> <td>LOW1.AA</td> <td style="text-align: center;">●</td> <td></td> </tr> <tr> <td>LOW1.AD</td> <td></td> <td style="text-align: center;">●</td> </tr> </tbody> </table>	Model	Output		0...10V	4...20mA	LOW1.AA	●		LOW1.AD		●
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Sensor Specification	<p>Sensor Specification</p> <p>Measured</p> <p>Sensor Characteristics</p> <p>Sensor Output (s)</p> <p>Accuracy</p> <p>Measuring Range (s)</p> <p>Optiona Measuring Range (s)</p>	<p>Light</p> <p>Active</p> <p>See Product Range, Page 1</p> <p>±5% of measuring range</p> <p>0...2000Lux</p> <p>0...20kLux / 0...100kLux</p>																																						
Technical Information	<p>Electrical Information</p> <p>Power Supply</p> <p>Frequency</p> <p>Terminal Clamp</p> <p>Power Consumption</p> <p>Mechanical Information</p> <p>Cable Entry</p> <p>Sensing Element Position</p> <p>User Interface</p> <p>Color and Materials</p> <p>Housing Cover</p> <p>Housing Bottom</p> <p>Environmental Conditions</p> <p>Operation Temperature</p> <p>Operation Humidity</p> <p>Transport Temperature</p> <p>Transport Humidity</p> <p>Storage Temperature</p> <p>Storage Humidity</p> <p>Norms and Directives</p> <p>Protection Rating</p> <p>Safety Class</p> <p>Product Standard 1</p> <p>Product Standard 2</p> <p>CE Conformities to</p> <p>CE Electromagnetic Compatibility Emitted Interference</p> <p>CE Electromagnetic Compatibility Interference resistance</p> <p>RoHS Compatibility</p> <p>Operation Climatic Condition</p> <p>Operation Mechanical Condition</p> <p>Transport Climatic Condition</p> <p>Transport Mechanical Condition</p> <p>Storage Climatic Condition</p> <p>Storage Mechanical Condition</p>	<p>DC 15...24V (±10%) or AC 24V (±10%)</p> <p>50/60 Hz at AC 24V</p> <p>Screw terminal, max. 1.5mm²</p> <p>24V; 0.15W / 0.5VA</p> <p>M20 for wire conductor D=8mm</p> <p>Top of housing</p> <p>None</p> <p>ASA, RAL 9010 (Pure white)</p> <p>ASA, RAL 9010 (Pure white)</p> <p>-20...+70°C</p> <p><85% r.h., no condensation</p> <p>-35...+70°C</p> <p><90% r.h.</p> <p>-20...+70°C</p> <p>< 85% r.h., no condensation</p> <p>IP65 to IEC60529</p> <p>III to EN 60730</p> <p>Automatic Electrical Controls for household and similar use</p> <p>2009/EN 60 730-1</p> <p>2004/108/EG Electromagnetic Compatibility EMV</p> <p>2000/EN60730-1 Emitted Interference</p> <p>2000/EN60730-1 Interference Resistance</p> <p>RoHS 2011/65/EC</p> <p>IEC60721-3-3</p> <p>IEC60721-3-3</p> <p>IEC60721-3-2</p> <p>IEC60721-3-2</p> <p>IEC60 721-3-1</p> <p>IEC60 721-3-1</p>																																						
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Miscellaneous	<p>Accessories</p> <p>Shipping & Handling</p> <p>Order Notes</p> <p>Accessory not included in delivery</p> <p>Minimum Order</p> <p>Product Dimension (L x W x H) / Weight</p> <p>Transport and Storage dimension (L x W x H) / Weight</p> <p>Package Material</p> <p>Order Code</p>	<p>TRA0.A</p> <p>Rigid Cardboards Packaging</p> <p>78mm x 58mm x 46mm / 120gr.</p> <p>195mm x 95mm x 65mm / 260gr.</p> <p>Rigid Cardboards Packaging</p> <p>See Product Range, Page 1, e.g. LOW1.AA</p>																																						

All Information and technical data are subject to alteration

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

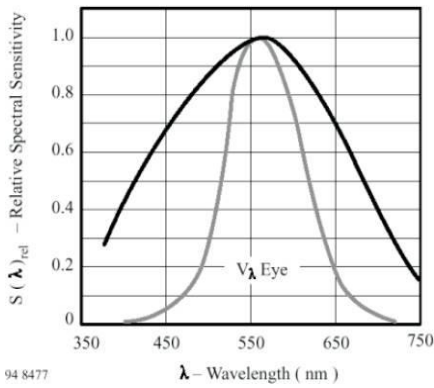
Tightening material is not included in delivery range.

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.

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.



Relative sensitivity vs. wavelength

Dimensions

