
 TI5401en	Technical Information	
LOW1- Series (L)	Outdoor Light Sensor with active output	

The LOW1- Series (L) is designed for light measuring in outdoor areas,

plant rooms production plants and warehouses

The sensor has multiple measuring ranges on board

The sensor has an integrated color filter, adapting the sensitivity of human eyes

The sensor works with low power supply

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	Outdoor sensor for light measurement with active output																							
	Selectable measuring range																							
	Professional and practical product design, withstands rough environmental conditions																							
	Easy to use, install and maintain																							
	High precision and reliability																							
Product Range	<table><tr><td>Model</td><td>Power Supply</td><td>Output</td><td colspan="2">Measuring Ranges</td><td>Accuracy Light</td><td>Protection</td></tr><tr><td>LOW1.AAa</td><td rowspan="2">AC/DC 24V (±10%) ; SELV</td><td>0...10V / 0...5V</td><td colspan="2">0...1000Lux* ; 0...200Lux ; 0...2.000Lux ; 10.000Lux ; 0...20.000Lux ; 0...50.000Lux</td><td rowspan="2">±5% of measuring range</td><td rowspan="2">IP65 to IEC60529</td></tr><tr><td>LOW1.ADa</td><td>4...20mA</td><td colspan="2">0...1000fc* ; 0...200fc ; 0...2.000fc ; 10/000fc ; 0...20.000Lfc ; 0...50.000fc</td></tr></table>						Model	Power Supply	Output	Measuring Ranges		Accuracy Light	Protection	LOW1.AAa	AC/DC 24V (±10%) ; SELV	0...10V / 0...5V	0...1000Lux* ; 0...200Lux ; 0...2.000Lux ; 10.000Lux ; 0...20.000Lux ; 0...50.000Lux		±5% of measuring range	IP65 to IEC60529	LOW1.ADa	4...20mA	0...1000fc* ; 0...200fc ; 0...2.000fc ; 10/000fc ; 0...20.000Lfc ; 0...50.000fc	
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* default Value																								
All Information and technical data are subject to alteration																								
Thermokon Asia PacificLOW1- Series (L) V23.1Page 1/3																								





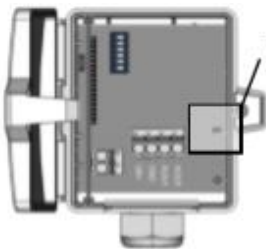
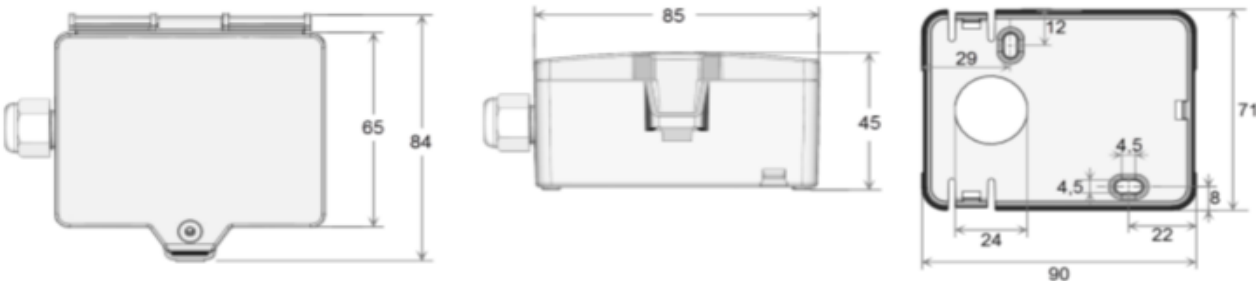
Sensor Specifications	Sensor Specification	Measured	Light
		Sensor Output (s)	See Product Range, Page 1
		Accuracy	±5% of measuring range
		Measuring Range (s)	0...1.000Lux / 1.000fc
		Optiona Measuring Range (s)	0...200Lux ; 0...2.000Lux ; 10.000Lux 0...20.000Lux ; 0...50.000Lux 0...200fc ; 0...2.000fc ; 10.000fc ; 0...20.000Lfc ; 0...50.000fc
Technical Information	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	M20 for wire conductor D=8mm
		Sensing Element Position	Top of housing
	User Interface	n.a.	n.a.
	Color and Materials	Housing Cover	ASA, RAL 9010 (Pure white)
		Housing Bottom	ASA, RAL 9010 (Pure white)
	Environmental Conditions	Operation Temperature	-20...+70°C
		Operation Humidity	<85% r.h., no condensation
		Transport Temperature	-35...+70°C
		Transport Humidity	<90% r.h.
	Norms and Directives	Storage Humidity	< 85% r.h., no condensation
		Protection Rating	IP65 to IEC60529
		Safety Class	III to EN 60730
		Product Standard 1	Automatic Electrical Controls for household and similar use
	LOW1- Series (L)	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	
Miscellaneous	Accessories	Accessory not included in delivery	TRA0.A
	Shipping & Handling	Minimum Order	Rigid Cardboards Packaging
		Product Dimension (L x W x H) / Weight	78mm x 58mm x 46mm / 120gr.
		Transport and Storage dimension (L x W x H) / Weight	185mm x 90mm x 60mm / 260gr.
		Package Material	Rigid Cardboards Packaging
	Order Notes	Order Code	See Product Range, Page 1, e.g. LOW1.AAa

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All Information and technical data are subject to alteration

LOW1- Series (L) V23.1

Page 2/3

Advices	<div> <div>Installation Notes</div> <div> <div>  <div> All relevant national and heavy power regulation 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 </div> </div> </div> </div>								
	<div> <div>Mounting Advices</div> <div> <div>   <div> The sensor must be mounted directly on the surface </div> </div> </div> </div>								
	<div> <div>Disposal Notes</div> <div> <div>  <div> 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 </div> </div> </div> </div>								
Connection / Settings	<div> <div> <div>Connection Plan</div> <div>  <div> <div>LOW1.Aaa</div> <div> <div> <div>0.5 V</div> <div>0..10 V</div> </div> <div> <div>n.c.</div> <div>AOU1</div> <div>GND</div> <div>UB+</div> </div> <div> <div>(light 0..10 V)</div> <div>(15..35 V =)</div> </div> </div> <div> <div>LOW1.AAa</div> <div>LOW1.AAa / LOW1.ADa</div> <div>LOW1.ADa</div> </div> </div> </div> <div> <div>DIP- Settings</div> <div> <div>DIP4 & 5 are not in use</div> <div> <div> <div>Measuring range light - DIP 1..3</div> <table> <tr> <td> <div>ON</div> <div>#0 (factory default)</div> <div>SI = 0..1 kLux</div> <div>IMP = 0..100 fc</div> </td> <td> <div>ON</div> <div>#1</div> <div>SI = 0..0,2 kLux</div> <div>IMP = 0..20 fc</div> </td> </tr> <tr> <td> <div>ON</div> <div>#2</div> <div>SI = 0..2 kLux</div> <div>IMP = 0..200 fc</div> </td> <td> <div>ON</div> <div>#3</div> <div>SI = 0..10 kLux</div> <div>IMP = 0..1000 fc</div> </td> </tr> <tr> <td> <div>ON</div> <div>#4</div> <div>SI = 0..20 kLux</div> <div>IMP = 0..2000 fc</div> </td> <td> <div>ON</div> <div>#5</div> <div>SI = 0..50 kLux</div> <div>IMP = 0..5000 fc</div> </td> </tr> </table> <div> <div>System of units - DIP 6</div> <table> <tr> <td> <div>ON</div> <div>#0 (factory default)</div> <div>SI</div> </td> <td> <div>ON</div> <div>#32</div> <div>IMP</div> </td> </tr> </table> </div> </div> <div> <div>fc= foot candle</div> <div>(american measurement)</div> </div> </div> </div> </div> </div></div>	<div>ON</div> <div>#0 (factory default)</div> <div>SI = 0..1 kLux</div> <div>IMP = 0..100 fc</div>	<div>ON</div> <div>#1</div> <div>SI = 0..0,2 kLux</div> <div>IMP = 0..20 fc</div>	<div>ON</div> <div>#2</div> <div>SI = 0..2 kLux</div> <div>IMP = 0..200 fc</div>	<div>ON</div> <div>#3</div> <div>SI = 0..10 kLux</div> <div>IMP = 0..1000 fc</div>	<div>ON</div> <div>#4</div> <div>SI = 0..20 kLux</div> <div>IMP = 0..2000 fc</div>	<div>ON</div> <div>#5</div> <div>SI = 0..50 kLux</div> <div>IMP = 0..5000 fc</div>	<div>ON</div> <div>#0 (factory default)</div> <div>SI</div>	<div>ON</div> <div>#32</div> <div>IMP</div>
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