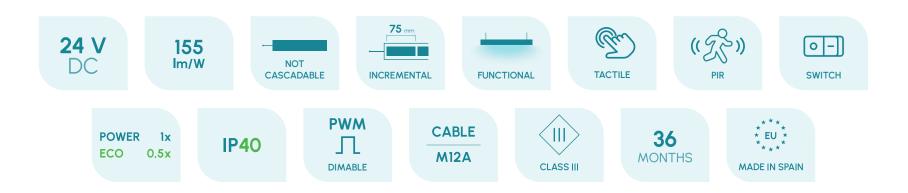
Functional · PCS Series White 3000K



USER MANUAL





1. Product Description

LED luminaire suitable for installation in electrical panels, machinery, home, elevators, machine vision, etc.

Structure made of silver anodized aluminum with multiple options. Equipped with the latest generation LEDs, the internal electronics allow direct connection to a power source, thus extending the life of the luminaire. In vision luminaires, a protection system is included to avoid exceeding the recommended triggering time.

2. Safety Tips

LUMHER luminaires have been manufactured according to the technical specifications specified for each model, using high-quality components and following a delicate production process.

Each production detail has been carefully crafted, from the manufacture of the electronic circuit to the final packaging, maintaining all quality criteria.

- Users should consider the following safety tips regarding the product.
 - This manual should be kept close to the luminaire.
 - It is important that users read all instructions before connecting the luminaire.
 - Follow the instructions in this document
 - Install the product taking into account the safety risks specified in this document.
 - LUMHER is not responsible for improper use of this luminaire.

2.1. Correct Use of the Luminaire

The product classification is IP40 or IP65 depending on the selected model, so this information must be considered when using the luminaire.

2.2. Product Safety

If the luminaire is not used correctly, it may be harmful to individuals due to electrical risks.

- The connection should ONLY be made by qualified personnel.
- Disconnect the power before performing any manipulation of the luminaire.
- The luminaire must comply with all the requirements indicated on the product label.
- Maintenance and repair should be carried out only by qualified personnel.
- There may be a risk of explosion if the luminaire is used in explosive environments.
- Do not install the luminaire in explosive environments.

Installation and Safety

- Avoid hitting the luminaire, even with packaging. It is a fragile product. Strong impacts may damage the luminaire.
- Use only the fastenings provided by the manufacturer.
- Properly use the mounting fixings.

- The luminaire must be securely fastened with the appropriate screws depending on the installation surface.
- Periodically check that the luminaire is properly installed.

Glare Hazard

- Avoid looking directly at the luminaire, as it may cause temporary vision problems, irritation, and eye
 pain.
- Do not look directly at the light source.
- Adjust the luminaire so that the light source does not directly impact the operator's eyes.

Hazard from Non-Original Spare Parts

• Always use original spare parts from the manufacturer.

Damage Due to High Temperatures

Install the luminaire in environments where there is no high temperature. A temperature above the maximum operating range can drastically reduce the luminaire's lifespan. Avoid direct sunlight.

Damage Due to Repairs

Do not disassemble or repair the equipment if not done by qualified personnel. Improper repairs may cause damage to people and objects. In case of failure, do not repair; return to technical support. Any modification of the product not performed by the technical service will void the warranty.

2.2. Risk Levels

DANGER: Risk in case of non-compliance. It may cause immediate injury or even death. WARNING: Risk in case of non-compliance. It may cause injuries or even death. ATTENTION: Risk in case of non-compliance. It may cause immediate injuries. ADVICE: Risk in case of non-compliance. It may cause damage to objects.

3. Versions

The product code can be found on the luminaire label and packaging. Find the luminaire code on the packaging label and verify the item with the product label.

The barcode on the label shows the week and year of manufacture.

Do not remove the product label, as it will facilitate traceability in case of return due to failure or malfunction. If the luminaire does not have a label, it will lose its warranty.

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4. Technical specifications

5. Connection

Luminous efficiency125 lm/WMotion sensor disconnection delay (PIR)5 min.WavelengthWarm white3000KBeam angleSemidiffuse Ultradiffuse60° 110°Max. number of cascadable modulesThis luminaire is not cascadableYES YESElectrical protectionsTransient overvoltages YES Current sabilizerYES YES
delay (PIR) 5 min. Wavelength Warm white 3000K Beam angle Semidiffuse Ultradiffuse 60° 110° Max. number of cascadable modules This luminaire is not cascadable 110° Electrical protections Transient overvoltages Polarity reversal YES YES
Beam angle Semidiffuse Ultradiffuse 60° 110° Max. number of cascadable modules This luminaire is not cascadable Transient overvoltages YES Polarity reversal
Beam angle Ultradiffuse 110° Max. number of cascadable modules This luminaire is not cascadable 110° Transient overvoltages YES Electrical protections Polarity reversal YES
modules This luminaire is not cascadable Electrical protections Transient overvoltages YES
Electrical protections Polarity reversal YES
Colour Rendering Index (CRI) ≥ 90
IP Rating IP40
Protection type Class III
Operating temperaturePOWER version ECO version-10°C to +40° -10°C to +50° -10°C to +50°
Storage temperature0°C a +60°C
Max. relative humidity 80% (without condensation)
Body material Anodized aluminum
Side cover material SLA resin
Diffuser material Polycarbonate
Diffuser material Polycarbonate Connection types 2m cable

Input M12A - Cable	Power	Eco	Dual			
Pin 1 – Brown	+24 Vdc	+24 Vdc	+24 Vdc			
Pin 2 - White	Not connected	Not connected	24 Vdc = Power 0 Vdc = Eco			
Pin 3 - Blue	0 Vdc	0 Vdc	0 Vdc			
Pin 4 - Black ⁽¹⁾	24 Vdc = Power on 0 Vdc = Switched on by motion sensor or touch sensor					

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(1) Pin 4 is not connected in the switch version

M12A Male



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Fixings

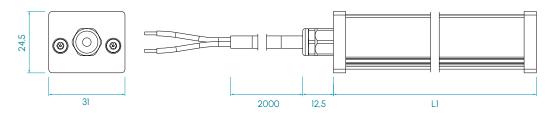
200G1, P00G2, P00G3

0

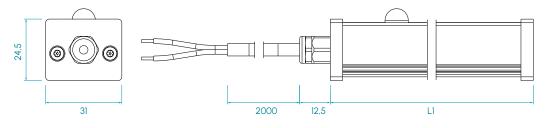
PCS · 3000K

6. Measures

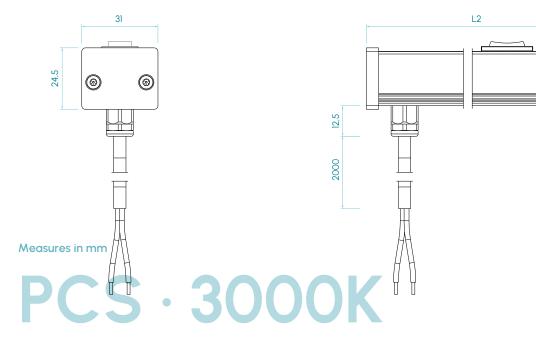
Tactile sensor + M12A axial input



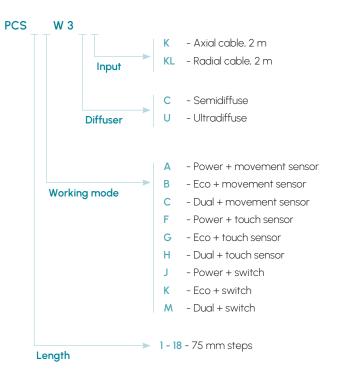
Motion sensor + M12A axial input



Switch + M12A radial input



7. Selection guide



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PCS Series · Warm white 3000K

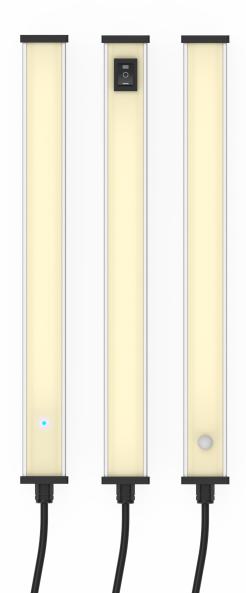


Table of characteristics

	Length	Length	Weight	Illuminance Ev			Luminous flux ⁽³⁾		Power consumed		
	L1 ⁽²⁾	L2 (2)			(lx)	@ lm		(In	n)	(W	/)
	(mm)	(mm)	(g)	SEMIDI	FFUSE	ULTRAD	IFFUSE				
				POWER	ECO	POWER	ECO	POWER	ECO	POWER	ECO
PCS 01	140	158	89	41	21	25	12	195	98	1,6	0,8
PCS 02	215	233	129	82	41	49	25	390	195	3,2	1,6
PCS 03	290	308	169	123	62	74	37	586	293	4,8	2,4
PCS 04	365	383	209	164	82	99	49	781	390	6,4	3,2
PCS 05	440	458	249	205	103	124	61	976	488	8,0	4,O
PCS 06	515	533	289	246	124	148	74	1.171	586	9,6	4,8
PCS 07	590	608	329	287	144	173	86	1.366	683	11,2	5,6
PCS 08	665	683	369	327	165	198	98	1.562	781	12,8	6,4
PCS 09	740	758	409	368	185	222	110	1.757	878	14,4	7,2
PCS 10	815	833	449	409	206	247	123	1.952	976	16,0	8,0
PCS 11	890	908	489	450	226	272	135	2.147	1.074	17,6	8,8
PCS 12	965	983	529	491	247	296	147	2.342	1.171	19,2	9,6
PCS 13	1.040	1.058	569	532	268	321	160	2.538	1.269	20,8	10,4
PCS 14	1.115	1.133	609	573	288	346	172	2.733	1.366	22,4	11,2
PCS 15	1.190	1.208	649	614	309	371	184	2.928	1.464	24,0	12,0
PCS 16	1.265	1.283	689	655	329	395	196	3.123	1.562	25,6	12,8
PCS 17	1.340	1.358	729	696	350	420	209	3.318	1.659	27,2	13,6
PCS 18	1.415	1.433	769	737	371	445	221	3.514	1.757	28,8	14,4

(2) Versions with radial input and/or radial output will have as length L2, the rest will be L1.(3) The luminous flux (Im) is before diffuser.





8. Control

For Strobe mode operation, it is recommended that the power supply be twice as powerful as the Strobe mode lamp.

Maintain input voltage within the permissible range; incorrect voltage will damage the LED driver. **Permitted** voltage range: 24VDC±5%

Improper wiring can cause lamp breakage, material, and personal damage. Electrical connection must be carried out by qualified personnel. Strictly follow the indications shown in the connection section to ensure correct polarity.

9. Switching On and Off

The luminaire does not have automatic on/off functionality. This function is only available in vision models and versions with a presence sensor.

The luminaire turns on when receiving voltage and turns off when the voltage is removed. The luminaire allows PWM dimming (except for machine vision models).

10. Troubleshooting

If the lamp does not turn on:

- Check that the lamp is correctly connected to the power source.
- Verify that the polarity of the connection pins is correct.

lf the lamp is defective, contact: CONTAVAL S.L.U. (Lumher Technical Support) Telf. +34 963 843 700 Email: service@lumher.es

11. Replacing the Light Source

The light source is adhered to the profile using thermal adhesive glue.

Thanks to the long lifespan of the LED, around 60,000 hours*, light source replacement will not be necessary if used as indicated in this manual

In case the light source needs to be replaced, contact the technical department.

* Value for white LED

12. Product Maintenance and Cleaning

WARNING - Disconnect power before performing any maintenance tasks.

This product does not require special maintenance.

- Cleaning tasks should only be carried out after turning off the lamp and once the surfaces have cooled down.
- Then proceed to clean the lamp with a non-abrasive liquid and a soft cloth.
- Regularly check that the four mounting screws are properly tightened.

ADVICE - Liquid leaks can damage the lamp.

13. Repair and Warranty

During the product's lifespan, the warranty covers product analysis and repair exclusively by Lumher's technical department or an authorized distributor, including the following points:

- Custody of the material provided for repair
- Cost of components, including labor dedicated to the defective product

The warranty does not cover:

- Transportation, packaging, and shipping costs
- Deterioration or damage caused by:
 - Installation and/or operation different from what is described in this manual
 - Repairs or repair attempts by personnel not authorized by Lumher
 - Operation of the equipment in environmental conditions other than those specified in the luminaire's technical sheet
 - Damage caused by liquid leaks in the lamp
 - Damage during transportation due to not following proper indications or inadequate packaging (original packaging is recommended)

WARRANTY PERIOD: The warranty period is 36 months from the date of purchase. Once this period has expired, repair services will be provided at the cost of replacement parts and labor according to established rates.



14. Recycling

Disposal of Obsolete Electrical and Electronic Devices (Directive 2002/96/EC-WEEE): The crossed-out trash bin symbol indicates that this product, as it contains electrical and electronic components, should not be mixed with untreated municipal waste. For more detailed information regarding the recycling of this product, check your country's waste disposal regulations. Do not dispose of this product as solid waste, even if it contains such components. Reuse or proper recycling of electrical or electronic equipment (EEE) is important to protect the environment and human health.

According to the European WEEE Directive 2002/96/EC, these types of products should be disposed of in electrical and electronic waste disposal areas. The equipment may be disposed of by the distributor when purchasing an equivalent. Public administrations and manufacturers of electrical and electronic equipment are involved in facilitating all processes for the reuse and recovery of discarded electrical and electronic equipment through collection campaigns using appropriate planning mechanisms.

Incorrect disposal of electrical or electronic waste may be punishable by law according to the sanctions established by each country.

15. Symbology

CE	CE Logo
	CLASS III DEVICE Device that works with extra-low voltages.
IP40 / IP65	IP Rating
LED TEC	LED Technology
	Directive 2002/96/EC of the European Parlia- ment and of the Council of 27 January 2003 on the disposal of Waste Electrical and Electronic Equipment (WEEE) (OJ L 37, 13.2.2003, p. 1).

