

EXPLOSION-PROOF LUMINAIRE

# AV-02C LED



		EN IEC 60598	RoHS	IP54		-20°C÷....+40°C	WARRANTY 5 years	MAX 58W LED
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## General specifications

Product name	AV-02C LED																					
Application Area	Lighting in explosion-hazardous areas of group II, zones 1 and 2.																					
Light source	High-power SAMSUNG COB LED, CRI≥70, cool white 5000K, 6500K, extended lifespan according to TM-21 calculations. <table border="1" data-bbox="933 414 1337 616"> <thead> <tr> <th>Lxx</th> <th>Byy</th> <th>Number of hours tsp 740C</th> </tr> </thead> <tbody> <tr> <td>L70</td> <td>B50</td> <td>182.000</td> </tr> <tr> <td>L70</td> <td>B10</td> <td>103.000</td> </tr> <tr> <td>L80</td> <td>B50</td> <td>113.000</td> </tr> <tr> <td>L80</td> <td>B10</td> <td>65.000</td> </tr> <tr> <td>L90</td> <td>B50</td> <td>53.000</td> </tr> <tr> <td>L90</td> <td>B10</td> <td>31.000</td> </tr> </tbody> </table>	Lxx	Byy	Number of hours tsp 740C	L70	B50	182.000	L70	B10	103.000	L80	B50	113.000	L80	B10	65.000	L90	B50	53.000	L90	B10	31.000
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Protection against dust and water (IP)	IP54																					
Explosion protection	<b>II 2G Ex db eb IIC T6 Gb</b> Flameproof encapsulation (d) in the optical compartment Increased safety (e) in the terminal box																					
Operating temperature range	-20°C÷ +40°C																					
Warranty	5 years																					

## Electrical specifications

Nominal voltage	230 Vac
Frequency (Hz)	50-60 Hz
Power factor	≥0,95

## Technical specifications

Housing and frame	Die-cast aluminum alloys and painted.
Protection globe	The lamp protection globe is made of heat-resistant glass.
Optical system	The optical system includes medium-power LEDs that provide a wide light distribution.
Source	The AV-02C LED product consists of a body with the light source and the CAEx-02 LED gear box (ordered separately) – which powers the light source.
Color	yellow

## Mounting

- Suspended. Fixed installation.
- Individual connection with the CAEx-02 LED gear box.
- Individual/series connection to the network for the AV-02C LED 230V version.

## Standards and certifications

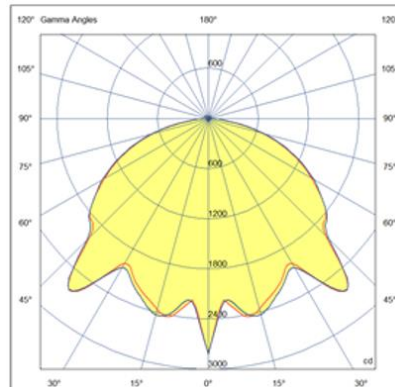
Standards	<ul style="list-style-type: none"> <li>- EN IEC 60598-1</li> <li>- EN IEC 60598-2-1</li> <li>- EN IEC 60598-2-5.</li> </ul>
Certifications	<ul style="list-style-type: none"> <li>- AV-02C LED: INSEMEX-OEC.ATEX.22.0302X Protection type: II 2G Ex db eb IIC T6 Gb</li> <li>- CAEx-02 LED: INSEMEX-OEC.ATEX.22.0301X Protection type: II 2G Ex db eb IIC T6 Gb</li> <li>- AV-02C LED 230V: INSEMEX-OEC.ATEX.22.302X +A1/2023 Protection type: II 2G Ex db eb IIC T6 Gb</li> <li>- The lighting fixture is manufactured in accordance with the requirements of the following standards: SR EN 60598-1, SR EN IEC 60079-0: 2018, SR EN 60079-1: 2015, SR EN 60079-7:2016+A1:2018</li> </ul>

In compliance with European Directives:

- Electromagnetic compatibility directive.
- Low voltage directive.
- RoHS Directive, DEEE Directive.
- ATEX Directive 2014/34/EU "Equipment and protective systems intended for use in explosive atmospheres "

## Photometric data

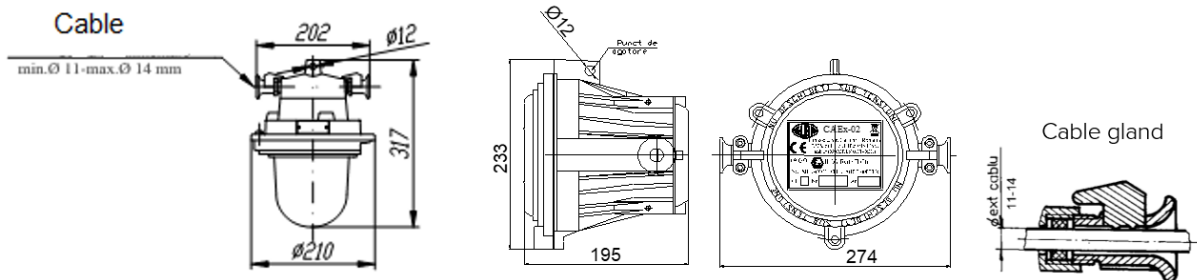
AV-02C LED



Light intensity distribution curve [Cd/1000lm]

## Dimensional characteristics

AV-02C LED



Product type	D [mm]	l [mm]	h [mm]
Light source body AV-02C LED	210	202	317
Gear box AV-02C (CAEx-02) LED	233	274	195

## Annex-product codes

Product type	Product code	Nominal voltage [Vdc]	Max power light source [W]	Current [mA]	Protection degree	Protection class	Temp. class	Environment group	Weight [Kg]	Total net flux [lm]	Overall luminous efficacy [lm/W]
AV-02C LED 44.5W 5000K	32321142	48.7	39.4	810	IP54	I	T6	IIC	4	6753	171
AV-02C LED 44.5W 5000K V2	32321143	48.7	38.47	790	IP54	I	T6	IIC	4	6753	175
AV-02C LED 44.5W 6500K	32321144	48.7	39.4	810	IP54	I	T6	IIC	4	6753	171
AV-02C LED 44.5W 6500K V2	32321145	48.7	38.47	790	IP54	I	T6	IIC	4	6753	175
AV-02C LED 57.5W 5000K	32321146	49.4	51.4	1040	IP54	I	T6	IIC	4	8829	171
AV-02C LED 57.5W 5000K V2	32321148	49.4	51.4	1040	IP54	I	T6	IIC	4	8829	171
AV-02C LED 64.5W 5000K	32321150	49.6	58	1170	IP54	I	T6	IIC	4	8992	155
AV-02C LED 64.5W 5000K V2	32321151	49.7	57.7	1160	IP54	I	T6	IIC	4	8992	155
AV-02C LED 64.5W 6500K	32321152	49.6	58	1170	IP54	I	T6	IIC	4	8992	155
AV-02C LED 64.5W 6500K V2	32321153	49.7	57.7	1160	IP54	I	T6	IIC	4	8992	155
AV-02C LED 230V (without CAEX-02 LED)											
AV-02C LED 19,1W 4000K 230V	32321160	230	19.1	810	IP54	I	T6	IIC	4.3	2170	113
AV-02C LED 18,7W 4000K 230V	32321161	230	18.7	500	IP54	I	T6	IIC	4.3	3000	160
AV-02C LED 18,7W 5000K 230V	32321162	230	18.7	500	IP54	I	T6	IIC	4.3	3000	160

The values are approximate and may be subject to change.

The tolerance of the initial flux and initial active power is  $\pm 10\%$  of the specified value. These values are measured at an ambient temperature of 25°C unless another temperature is specified.

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