



Łukasiewicz – IMiF  
 PREDOM Division  
 Krakowiaków 53, 02-255 WARSAW  
 POLAND

ENEC Certification Body registered under ID 30. Validity of ENEC licences can be checked at [www.enec.com](http://www.enec.com)  
 Jednostka Certyfikująca ENEC zarejestrowana pod numerem ID 30. Ważność licencji można sprawdzić na [www.enec.com](http://www.enec.com)

# LICENCE / CERTIFICATE

to use the European Mark

LICENCJA / CERTYFIKAT

na używanie europejskiego Znaku



**Licence / Certificate No.**

Licencja / Certyfikat Nr

**0312/ENEC/23**

**Under the conditions given in the following pages of this document, the licence to use the ENEC Mark in conjunction with the suffix 30, as shown above, has been issued to:**

Zgodnie z warunkami przedstawionymi na następnych stronach tego dokumentu, licencja na używanie Znaku ENEC w połączeniu z przyrostkiem 30, jak ukazano powyżej, została wydana dla:

**Name and address of the Certificate owner:**

Nazwa i adres posiadacza Certyfikatu:

**MILOO - ELECTRONICS Sp. z o.o**  
**Stary Wiśnicz 289, 32-720 Nowy Wiśnicz**

**For the products:**

Dla wyrobów:

**Luminaires for road and street lighting**  
**Oprawy oświetleniowe drogowe i uliczne**

**Manufacturing place:**

Miejsce produkcji:

**MILOO - ELECTRONICS Sp. z o.o**  
**Stary Wiśnicz 289, 32-720 Nowy Wiśnicz**

**Trade name:**

Znak towarowy:

**MILOO Lighting**

**Type(s)/Model(s):**

Typ(y), model(e):

**VIA – series**  
 (details in the Appendix / Szczegóły w Załączniku)

**Complying with the following European Standards:**

Zgodnymi z następującymi normami europejskimi:

**EN 60598-2-3:2003, EN 60598-2-3:2003/A1:2011, EN IEC 60598-1:2021,  
 EN IEC 60598-1:2021/A11:2022, EN 62262:2002**

**Test report(s):**

Raporty z badań:

**Ref. No: B5-3/036/B/23 + Att. No. 1 (EU GD and ND rep. ref. B5-3/036/B/23) dated 12.04.2023 ; B5-3/033/B/23 dated 12.04.2023 performed by the Testing Laboratory Łukasiewicz-IMiF PREDOM Division (Accreditation PCA AB 003)**

**Date:**

Data:

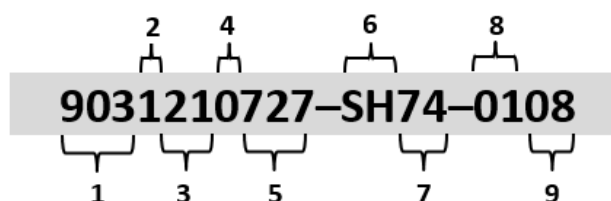
**2023-05-17**

This licence has been issued under the presumption and conditional on the fact that the licensee holds all necessary legal rights with regard to the product presented for testing and certification. The ENEC mark may be applied to the products as specified in this licence for the duration of the Licence. This licence expires upon withdrawal any of the above mentioned standards.

Niniejsza licencja została wydana zgodnie z założeniem i pod warunkiem, że licencjodawca posiada wszelkie niezbędne prawa w odniesieniu do wyrobu przedstawionego do badań i certyfikacji. Znak ENEC może być stosowany na wyrobach wymienionych w niniejszej licencji przez okres obowiązywania Umowy licencyjnej. Niniejsza licencja traci ważność po wycofaniu którejkolwiek z wyżej wymienionych norm.

**Additional information – see the Appendix. Dodatkowe informacje – patrz Załącznik.**

<b>Name and address of the license holder:</b>	MILOO ELECTRONICS Sp. z o. o. 32-720 Nowy Wiśnicz, Stary Wiśnicz 289
<b>Name and address of the manufacturer:</b>	MILOO ELECTRONICS Sp. z o. o. 32-720 Nowy Wiśnicz, Stary Wiśnicz 289
<b>Name and address of the manufacturing place:</b>	MILOO ELECTRONICS Sp. z o. o. 32-720 Nowy Wiśnicz, Stary Wiśnicz 289
<b>Name of product:</b>	Luminaires for road and street lighting
<b>Type (model):</b>	VIA – series <i>(details in the Appendix / Szczegóły w Załączniku)</i>
<b>Trade mark :</b>	MILOO Lighting
<b>Technical data:</b>	
rated voltage	220-240V
rated frequency	50Hz
protection against electric shock	Class II
degree of protection	IP66

**Choice sheet of the luminaires VIA – series:**


Designations used on the marking of Luminaire:

**1. 903 - Luminaire type**

<b>903</b>	VIA-M (Medium size)
<b>904</b>	VIA-L (Large size)

**2. 1 - Mounting type**

<b>1</b>	On the pole
----------	-------------

**3. 21 – Luminaire power**

<b>21</b>	20 W	only available for the luminaire type: <b>903</b>
<b>15</b>	25 W	only available for the luminaire type: <b>903</b>
<b>01</b>	30 W	only available for the luminaire type: <b>903</b>
<b>22</b>	35 W	only available for the luminaire type: <b>903</b>
<b>02</b>	40 W	only available for the luminaire type: <b>903</b>

**APPENDIX TO THE LICENCE/CERTIFICATE No. 0312/ENEC/23**
**page 2**

<b>25</b>	45 W	only available for the luminaire type: <b>903</b>
<b>03</b>	50 W	only available for the luminaire type: <b>903</b>
<b>26</b>	55 W	only available for the luminaire type: <b>903</b>
<b>63</b>	60 W	only available for the luminaire type: <b>903</b>
<b>27</b>	65 W	only available for the luminaire type: <b>903</b>
<b>04</b>	70 W	only available for the luminaire type: <b>903</b>
<b>28</b>	75 W	only available for the luminaire type: <b>904</b>
<b>24</b>	80 W	only available for the luminaire type: <b>904</b>
<b>29</b>	85 W	only available for the luminaire type: <b>904</b>
<b>05</b>	90 W	only available for the luminaire type: <b>904</b>
<b>30</b>	95 W	only available for the luminaire type: <b>904</b>
<b>20</b>	100 W	only available for the luminaire type: <b>904</b>
<b>31</b>	105 W	only available for the luminaire type: <b>904</b>
<b>06</b>	110 W	only available for the luminaire type: <b>904</b>
<b>32</b>	115 W	only available for the luminaire type: <b>904</b>
<b>33</b>	120 W	only available for the luminaire type: <b>904</b>
<b>34</b>	125 W	only available for the luminaire type: <b>904</b>
<b>07</b>	130 W	only available for the luminaire type: <b>904</b>

**4. 0 - Type of power supply**

<b>0</b>	Basic
<b>D</b>	DALI (D4i)
<b>A</b>	AstroDIM
<b>V<sup>4</sup></b>	0-10V

**5. 727 - CRI and Corelated Colour Temperature (CCT)**

<b>727</b>	CRI=70, CCT=2700K
------------	-------------------

**APPENDIX TO THE LICENCE/CERTIFICATE No. 0312/ENEC/23**
**page 3**

<b>730</b>	CRI=70, CCT=3000K
<b>740</b>	CRI=70, CCT=4000K
<b>757</b>	CRI=70, CCT=5700K
<b>765</b>	CRI=70, CCT=6500K
<b>827</b>	CRI=80, CCT=2700K
<b>830</b>	CRI=80, CCT=3000K
<b>840</b>	CRI=80, CCT=4000K
<b>857</b>	CRI=80, CCT=5700K
<b>865</b>	CRI=80, CCT=6500K
<b>927</b>	CRI=90, CCT=2700K
<b>930</b>	CRI=90, CCT=3000K
<b>940</b>	CRI=90, CCT=4000K
<b>957</b>	CRI=90, CCT=5700K
<b>965</b>	CRI=90, CCT=6500K

**6. SH - Lampshade type**

<b>SH</b>	Tempered glass (VIA)
<b>ST</b>	Tempered glass (VIA) with logo TAURON
<b>SA</b>	Tempered glass (VIA) with logo ENEA
<b>SR</b>	Tempered glass (VIA) with logo ENERGA
<b>SP</b>	Tempered glass (VIA) with logo PGE

**7. 74 - Luminaire body colour**

<b>74</b>	Gray RAL 7035ds
<b>09</b>	Anthracite RAL 7016ds

## 8. 01 - Type of lens

<b>01</b>	OP1
<b>02</b>	OP2
<b>03</b>	OP3
<b>04</b>	OP4
<b>05</b>	OP5
<b>06</b>	OP6

## 9. 08 - Protection class of the luminaire, impact protection of the luminaire (IK), tightness class of the luminaire (IP), + Additional options

<b>08<sup>2</sup></b>	2kl IK09 IP66
<b>10<sup>2</sup></b>	2kl IK09 IP66 + 10kV
<b>11<sup>2</sup></b>	2kl IK09 IP66 + SAFE
<b>12<sup>1</sup></b>	2kl IK09 IP66 + ZHAGA
<b>13</b>	2kl IK09 IP66 + 10kV + SAFE
<b>14<sup>1</sup></b>	2kl IK09 IP66 + 10kV + ZHAGA
<b>15<sup>1</sup></b>	2kl IK09 IP66 + 10kV + SAFE + ZHAGA
<b>16<sup>1</sup></b>	2kl IK09 IP66 + SAFE + ZHAGA
<b>17<sup>2</sup></b>	2kl IK09 IP66 + PZ
<b>18<sup>2</sup></b>	2kl IK09 IP66 + PZ + ZH
<b>19<sup>2</sup></b>	2kl IK09 IP66 + 10kV + PZ
<b>20<sup>2</sup></b>	2kl IK09 IP66 + 10kV + PZ + ZH
<b>21<sup>2</sup></b>	2kl IK09 IP66 + SAFE + PZ
<b>22<sup>2</sup></b>	2kl IK09 IP66 + SAFE + PZ + ZH
<b>23<sup>1</sup></b>	2kl IK09 IP66 + ZHAGA +PZ
<b>24<sup>1</sup></b>	2kl IK09 IP66 + ZHAGA +PZ + ZH
<b>25<sup>2</sup></b>	2kl IK09 IP66 + 10kV + SAFE + PZ
<b>26<sup>2</sup></b>	2kl IK09 IP66 + 10kV + SAFE + PZ + ZH
<b>27<sup>1</sup></b>	2kl IK09 IP66 + 10kV + SAFE + ZHAGA + PZ
<b>28<sup>1</sup></b>	2kl IK09 IP66 + 10kV + SAFE + ZHAGA + PZ + ZH
<b>29<sup>1</sup></b>	2kl IK09 IP66 + SAFE + ZHAGA + PZ
<b>30<sup>1</sup></b>	2kl IK09 IP66 + SAFE + ZHAGA + PZ + ZH

<b>31<sup>3,4</sup></b>	2kl IK09 IP66 + PZST
<b>32<sup>3,4</sup></b>	2kl IK09 IP66 + PZST + ZH
<b>33<sup>3,4</sup></b>	2kl IK09 IP66 + 10kV + PZST
<b>34<sup>3,4</sup></b>	2kl IK09 IP66 + 10kV + PZST + ZH
<b>35<sup>3,4</sup></b>	2kl IK09 IP66 + SAFE + PZST
<b>36<sup>3,4</sup></b>	2kl IK09 IP66 + SAFE + PZST + ZH
<b>37<sup>3,4</sup></b>	2kl IK09 IP66 + 10kV + SAFE + PZST
<b>38<sup>3,4</sup></b>	2kl IK09 IP66 + 10kV + SAFE + PZST + ZH
<b>41<sup>2</sup></b>	2kl IK09 IP66 + 15kV
<b>42<sup>2</sup></b>	2kl IK09 IP66 + 15kV + SAFE
<b>43<sup>1</sup></b>	2kl IK09 IP66 + 15kV + ZHAGA
<b>44<sup>1</sup></b>	2kl IK09 IP66 + 15kV + SAFE + ZHAGA
<b>45<sup>2</sup></b>	2kl IK09 IP66 + 15kV + PZ
<b>46<sup>2</sup></b>	2kl IK09 IP66 + 15kV + PZ + ZH
<b>47<sup>2</sup></b>	2kl IK09 IP66 + 15kV + SAFE + PZ
<b>48<sup>2</sup></b>	2kl IK09 IP66 + 15kV + SAFE + PZ + ZH
<b>49<sup>1</sup></b>	2kl IK09 IP66 + 15kV + SAFE + ZHAGA + PZ
<b>50<sup>1</sup></b>	2kl IK09 IP66 + 15kV + SAFE + ZHAGA + PZ + ZH
<b>51<sup>3,4</sup></b>	2kl IK09 IP66 + 15kV + PZST
<b>52<sup>3,4</sup></b>	2kl IK09 IP66 + 15kV + PZST + ZH
<b>53<sup>3,4</sup></b>	2kl IK09 IP66 + 15kV + SAFE + PZST
<b>54<sup>3,4</sup></b>	2kl IK09 IP66 + 15kV + SAFE + PZST + ZH
<b>55<sup>2</sup></b>	2kl IK09 IP66 + 20kV
<b>56<sup>2</sup></b>	2kl IK09 IP66 + 20kV + SAFE
<b>57<sup>1</sup></b>	2kl IK09 IP66 + 20kV + ZHAGA
<b>58<sup>1</sup></b>	2kl IK09 IP66 + 20kV + SAFE + ZHAGA
<b>59<sup>2</sup></b>	2kl IK09 IP66 + 20kV + PZ
<b>60<sup>2</sup></b>	2kl IK09 IP66 + 20kV + PZ + ZH
<b>61<sup>2</sup></b>	2kl IK09 IP66 + 20kV + SAFE + PZ
<b>62<sup>2</sup></b>	2kl IK09 IP66 + 20kV + SAFE + PZ + ZH
<b>63<sup>1</sup></b>	2kl IK09 IP66 + 20kV + SAFE + ZHAGA + PZ
<b>64<sup>1</sup></b>	2kl IK09 IP66 + 20kV + SAFE + ZHAGA + PZ + ZH
<b>65<sup>3,4</sup></b>	2kl IK09 IP66 + 20kV + PZST
<b>66<sup>3,4</sup></b>	2kl IK09 IP66 + 20kV + PZST + ZH

4	
67 <sup>3</sup> , 4	2kl IK09 IP66 + 20kV + SAFE + PZST
68 <sup>3</sup> , 4	2kl IK09 IP66 + 20kV + SAFE + PZST + ZH

**LEGEND:****2kl** - Second class of protection**10kV** - Surge protection device (SPD) 10kV**15kV** - Surge protection device (SPD) 15kV**20kV** - Surge protection device (SPD) 20kV**SAFE** - Safety switch**ZHAGA** – ZHAGA Connector**PZ** – Power cable**PZST** – Power cable with control lines**ZH** - Hermetic connector (mounted on the power cable **PZ** or **PZST**)<sup>1</sup> - only available for the power supply type: **D** (DALI)<sup>2</sup> - only available for the power supply type: **0** (Basic) or **A** (AstroDIM)<sup>3</sup> - only available for the power supply type: **V** (0-10V)<sup>4</sup> - option not available when using the driver:

- **E05-764** - OSRAM OT 75/170...240/1A0 1DIMLT2 G1 CE/ 75W / 0.2-1.0A/ PN 4052899541092
- **E05-765** - OSRAM OT 110/170...240/1A0 1DIMLT2 G1 CE/ 110W / 0.2-1.0A/ PN 4052899541115
- **E05-773** - OSRAM OT 165/220...240/1A0 1DIM G2 CE/ 165W / 0.2-1.0A/ PN 4052899605381

**.List of components:**

Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1)</sup>
VIA (L) - series						
LED Module	C	MILOO-ELECTRONICS Sp. z o.o	PCB-VIA_LED_L_v1 0	CCT: 2700, 3000K, 4000K, 5700K, 6500K CRI: 70, 80, 90 Power variants: 69W, 73W, 79W, 83W, 87W, 93W, 97W, 102W, 107W, 111W, 116W, 121W	EN 62031	Tested and accepted by PREDOM Division – report np. B5-3/037/B/23
LED Driver [E05-753]	A	PHILIPS (SIGNIFY)	Xi LP 110W 0.2-0.7A S1 230V C133 sXt	220-240Vac, 50-60Hz Ta= -40... +55°C Tc max = 90°C	EN 61347-1 EN 61347-2-13	ENEC
LED Driver [E05-769]	A	PHILIPS (SIGNIFY)	Xi LP 165W 0.2-0.7A S1 230V C170 sXt	220-240Vac, 50-60Hz Ta= -40... +55°C Tc max = 85°C	EN 61347-1 EN 61347-2-13	ENEC

## APPENDIX TO THE LICENCE/CERTIFICATE No. 0312/ENEC/23

page 7

LED Driver [E05-760]	A	INVENTRONIC S	EBS- 120S105DT2	220-240Vac, 50-60Hz Tc max = 90°C	EN 61347-1 EN 61347-2- 13	ENEC
LED Driver [E05-771]	A	INVENTRONIC S	EBS- 165S070DT2	220-240Vac, 50-60Hz Tc max = 90°C	EN 61347-1 EN 61347-2- 13	ENEC
LED Driver [E05-765]	A	OSRAM	OT 110/170...240/1 A0 1DIMLT2 G1 CE	220-240Vac, 50-60Hz Ta= -40... +55°C Tc max = 85°C	EN 61347-1 EN 61347-2- 13	ENEC
LED Driver [E05-773]	A	OSRAM	OT 165/220...240/1 A0 1DIM G2 CE	220-240Vac, 50-60Hz Ta= -40... +55°C Tc max = 90°C	EN 61347-1 EN 61347-2- 13	ENEC
LED Driver [E05-757]	A	PHILIPS (SIGNIFY)	Xi SR 110W 0.2-0.7A SNEMP 230V C150 sXt	220-240Vac/dc, 50-60Hz/DC Ta= -40... +55°C Tc max = 90°C	EN 61347-1 EN 61347-2- 13	ENEC
Driver [E05-770]	A	PHILIPS (SIGNIFY)	Xi SR 165W 0.2-0.7A SNEMP 230V C170 sXt	220-240Vac/dc, 50-60Hz/DC Ta= -40... +55°C Tc max = 90°C	EN 61347-1 EN 61347-2- 13	ENEC
Driver [E05-763]	A	INVENTRONIC S	EBS- 120S105BT2	220-240Vac, 50-60Hz Tc max = 90°C	EN 61347-1 EN 61347-2- 13	ENEC
LED Driver [E05-772]	A	INVENTRONIC S	EBS- 165S070BT2	220-240Vac, 50-60Hz Tc max = 90°C	EN 61347-1 EN 61347-2- 13	ENEC
LED Driver [E05-767]	A	OSRAM	OT DX 110/220...240/1 A0 DIMA LT2 E	220-240Vac, 50-60Hz Ta= -40... +60°C Tc max = 85°C	EN 61347-1 EN 61347-2- 13	ENEC
LED Driver [E05-774]	A	OSRAM	OT DX 165/220...240/1 A0 DIMA LT2 E	220-240Vac, 50-60Hz Ta= -40... +55°C Tc max = 90°C	EN 61347-1 EN 61347-2- 13	ENEC
Wire	A	MILOO- ELECTRONICS Sp. z o.o	WK-VIA-L_LED	[013-620] - Wire HELUKABEL 28765/ H05V-U/ 0.5mm <sup>2</sup> / red / PVC 300/500V	EN 50525-2- 31	HAR
				[013-619] - Wire HELUKABEL 28761/ H05V-U/ 0.5mm <sup>2</sup> / black/ PVC 300/500V	EN 50525-2- 31	HAR
Wire	A	MILOO- ELECTRONICS Sp. z o.o	WK-VIA- L_TERM	[013-621] - Wire HELUKABEL 28766/ H05V-U/ /0.5mm <sup>2</sup> / white/ PVC 300/500V	EN 50525-2- 31	HAR



Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-L_EQUI	[013-617] - Wire HELUKABEL 29090/ H05V-K/ 0.5mm2/ pink/ PVC 300/500V	EN 50525-2-31	HAR
Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-L_SPD_IN	[013-622] - Wire HELUKABEL 28763/ H05V-U/0.5mm2/blue/ PVC 300/500V	EN 50525-2-31	HAR
				[013-623] – Wire HELUKABEL 28764/ H05V-U/0.5mm2/ brown/ PVC 300/500V	EN 50525-2-31	HAR
Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-L_SPD_OUT	[013-622] - Wire HELUKABEL 28763/ H05V-U/ 0.5mm2/ blue/ PVC 300/500V	EN 50525-2-31	HAR
				[013-623] – Wire HELUKABEL 28764/H05V-U/ 0.5mm2/ brown/ PVC 300/500V	EN 50525-2-31	HAR
Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-L_ZHAGA_3P	[013-615] – Wire HELUKABEL 29087/H05V-K/ 0.5mm2/ grey/ PVC 300/500V	EN 50525-2-31	HAR
				[013-616] – Wire HELUKABEL 29084/H05V-K/ 0.5mm2/ brown/ PVC 300/500V	EN 50525-2-31	HAR
				[013-617] – Wire HELUKABEL 29090/ H05V-K/ 0.5mm2/ pink/ PVC 300/500V	EN 50525-2-31	HAR
				[E58-277] - Connector TE Connectivity 2213858-1 (ZHAGA) // Ta= -40... +90°C	EN 61984 UL 17057	DEKRA
Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-L_ZHAGA_4P	[013-615] – Wire HELUKABEL 29087/H05V-K/ 0.5mm2/ grey/ PVC 300/500V	EN 50525-2-31	HAR

				[013-616] – Wire HELUKABEL 29084/H05V-K/ 0.5mm <sup>2</sup> / brown/ PVC 300/500V	EN 50525-2-31	HAR
				[013-617] - Wire HELUKABEL 29090/ H05V-K/ 0.5mm <sup>2</sup> / pink/ PVC 300/500V	EN 50525-2-31	HAR
				[013-618] – Wire HELUKABEL 29089/ H05V-K/ 0.5mm <sup>2</sup> / yellow/ PVC 300/500V	EN 50525-2-31	HAR
				[E58-277] - Connector TE Connectivity 2213858-1 (ZHAGA) Ta= -40... +90°C	EN 61984 UL 17057	DEKRA
Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-L_PS	[013-622] – Wire HELUKABEL 28763/ H05V-U/ 0.5mm <sup>2</sup> / blue/ PVC 300/500V	EN 50525-2-31	HAR
				[013-623] - Wire HELUKABEL 28764/ H05V-U/ 0.5mm <sup>2</sup> / brown/ PVC 300/500V	EN 50525-2-31	HAR
Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-L_ST10V	[013-624] - Wire HELUKABEL 28767/ H05V-U/ 0.5mm <sup>2</sup> / grey/ PVC 300/500V	EN 50525-2-31	HAR
				[013-619] – Wire HELUKABEL 28761/H05V-U/ 0.5mm <sup>2</sup> / black/ PVC 300/500V	EN 50525-2-31	HAR
Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-L_ROZ_IN	[013-622] - Wire HELUKABEL 28763/ H05V-U/ 0.5mm <sup>2</sup> / blue/ PVC 300/500V	EN 50525-2-31	HAR
				[013-623] - Wire HELUKABEL 28764/ H05V-U/ 0.5mm <sup>2</sup> / brown/ PVC 300/500V	EN 50525-2-31	HAR

Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-L_ROZ_OUT	[013-622] - Wire HELUKABEL 28763/ H05V-U/ 0.5mm2/ blue/ PVC 300/500V	EN 50525-2-31	HAR
				[013-623] - Wire HELUKABEL 28764/ H05V-U/ 0.5mm2/ brown/ PVC 300/500V	EN 50525-2-31	HAR
Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-L_P_ZAS	[013-625] – Cable HELUKABEL 36001/ H05RN-F/ 2x0.75mm2/ black/ 300/500V	EN 50525-2-21	HAR
Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-L_P_ZAS_ST	[013-626] - Cable HELUKABEL 36008/ H05RN-F/ 4G0.75mm2/ black/ 300/500V	EN 50525-2-21	HAR
Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-L_P_ZAS_ST_TE	[013-626] - Cable HELUKABEL 36008/ H05RN-F/ 4G0.75mm2/ black/ 300/500V	EN 50525-2-21	HAR
				[E05-858] - Connector CMP-T-THB-391-A4C 4 PIN D7-12 SERIA TEETUBE Ta= -40... +125°C /IP68	EN 60998-1 EN 60998-2-1 EN 60998-2-3	ENEC
Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-L_P_ZAS_TE	[013-625] – Cable HELUKABEL 36001/ H05RN-F/ 2x0.75mm2/ black/ 300/500V	EN 50525-2-21	HAR
				[E05-858] - Connector CMP-T-THB-391-A4C 4 PIN D7-12 SERIA TEETUBE Ta= -40... +125°C /IP68	EN 60998-1 EN 60998-2-1 EN 60998-2-3	ENEC
Surge Protection Device [E58-279]	B	LITTELFUSE	LSP05GI240PX 3316	240Vac, 50/60Hz Ta= -40... +85°C	EN 61643-11	DEKRA
Surge Protection Device [E58-281]	B	OSRAM	SPD 10 275 D	275Vac, 50/60Hz Ta= -40... +70°C IP20	EN 61643-11	TUV

## APPENDIX TO THE LICENCE/CERTIFICATE No. 0312/ENEC/23

page 11

Surge Protection Device [E58-280]	B	OSRAM	SPD 10 275 G2	275Vac, 50/60Hz Ta= -40... +70°C IP20	EN 61643-11	TUV
Surge Protection Device [E58-282]	B	LITTELFUSE	LSP05GI240SX 3316	240Vac, 50/60Hz Ta= -40... +85°C	EN 61643-11	DEKRA
Surge Protection Device [E58-283]	B	LITTELFUSE	LSP10GIHP277 SX3316	277Vac, 50/60Hz Ta= -45... +75°C	EN 61643-11	DEKRA
Surge Protection Device [E58-284]	B	OSRAM	SPD 15 275 G2	275Vac, 50/60Hz Ta= -40... +70°C IP20	EN 61643-11	TUV
Surge Protection Device [E58-285]	B	OSRAM	SPD 20 275 G2	275Vac, 50/60Hz Ta= -40... +70°C IP20	EN 61643-11	TUV
Surge Protection Device [E58-286]	B	OSRAM	SPD 15 275 D	275Vac, 50/60Hz Ta= -40... +70°C IP20	EN 61643-11	TUV
Surge Protection Device [E58-287]	B	OSRAM	SPD 10 275 P5 G2	275Vac, 50/60Hz Ta= -40... +70°C IP65	EN 61643-11	TUV
Surge Protection Device [E58-288]	B	OSRAM	SPD 15 275 P5 G2	275Vac, 50/60Hz Ta= -40... +70°C IP65	EN 61643-11	TUV
Surge Protection Device [E58-289]	B	OSRAM	SPD 20 275 P5 G2	275Vac, 50/60Hz Ta= -40... +70°C IP65	EN 61643-11	TUV
Surge Protection Device [E58-290]	B	PHILIPS	Surge Protector Class-II 929001607106	255Vac, 50/60Hz Ta= -40... +70°C	EN 61643-11	DEKRA
Surge Protection Device [E58-291]	B	PHILIPS	Surge Protector Class-II Serial 929002102880	255Vac, 50/60Hz Ta= -40... +70°C IP20	EN 61643-11	TUV
Connector [E05-913]	B	KREALUX	P02-2J/9	450V, 24A Designation: L N	EN 60998-1 EN 60998-2-2	VDE
Connector [E05-915]	B	KREALUX	P02-4J/9	450V, 24A Designation: L N DA+ DA-	EN 60998-1 EN 60998-2-2	VDE

Safety switch [E58-168]	B	Yuyao Sineyi Electronic Technology Co.,LTD	M29	450VAC, 16A Ta max = 110°C	EN 61984 EN 60998-2-1 EN 60998-1	TUV
VIA-M - series						
LED Module	C	MILOO- ELECTRONICS Sp. z o.o	PCB- VIA_LED_M_v1 0	CCT: 2700, 3000K, 4000K, 5700K, 6500K CRI: 70, 80, 90 Power variants: 16W, 21W, 26W, 31W, 35W, 40W, 45W, 50W, 54W, 59W, 63W	EN 62031	Tested and accepted by PREDOM Division – report np. B5- 3/037/B/23
Zasilacz [E05-752]	A	PHILIPS (SIGNIFY)	Xi LP 40W 0.2- 0.7A S1 230V C123 sXt	220-240Vac, 50-60Hz Ta= -40... +55°C Tc max = 85°C	EN 61347-1 EN 61347-2- 13	ENEC
Zasilacz [E05-754]	A	PHILIPS (SIGNIFY)	Xi LP 75W 0.2- 0.7A S1 230V C133 sXt	220-240Vac, 50-60Hz Ta= -40... +55°C Tc max = 80°C	EN 61347-1 EN 61347-2- 13	ENEC
Zasilacz [E05-758]	A	INVENTRONIC S	EBS- 040S070DT2	220-240Vac, 50-60Hz Tc max = 90°C	EN 61347-1 EN 61347-2- 13	ENEC
Zasilacz [E05-759]	A	INVENTRONIC S	EBS- 080S105DT2	220-240Vac, 50-60Hz Tc max = 90°C	EN 61347-1 EN 61347-2- 13	ENEC
Zasilacz [E05-764]	A	OSRAM	OT 75/170...240/1 A0 1DIMLT2 G1 CE	220-240Vac, 50-60Hz Ta= -40... +55°C Tc max = 85°C	EN 61347-1 EN 61347-2- 13	ENEC
Zasilacz [E05-755]	A	PHILIPS (SIGNIFY)	Xi SR 40W 0.2- 0.7A SNEMP 230V C133 sXt	220-240Vac, 50-60Hz 186-250Vdc Ta= -40... +55°C Tc max = 85°C	EN 61347-1 EN 61347-2- 13	ENEC
Zasilacz [E05-756]	A	PHILIPS (SIGNIFY)	Xi SR 75W 0.2- 0.7A SNEMP 230V C150 sXt	220-240Vac/dc, 50-60Hz/DC Ta= -40... +55°C Tc max = 90°C	EN 61347-1 EN 61347-2- 13	ENEC
Zasilacz [E05-761]	A	INVENTRONIC S	EBS- 040S070BT2	220-240Vac, 50-60Hz Tc max = 90°C	EN 61347-1 EN 61347-2- 13	ENEC
Zasilacz [E05-762]	A	INVENTRONIC S	EBS- 080S105BT2	220-240Vac, 50-60Hz Tc max = 90°C	EN 61347-1 EN 61347-2- 13	ENEC
Zasilacz [E05-766]	A	OSRAM	OT DX 75/220...240/1 A0 DIMA LT2 E	220-240Vac, 50-60Hz Ta= -40... +55°C Tc max = 85°C	EN 61347-1 EN 61347-2- 13	ENEC

## APPENDIX TO THE LICENCE/CERTIFICATE No. 0312/ENEC/23

page 13

Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-M_LED	[013-620] - Wire HELUKABEL 28765/ H05V-U/ 0.5mm2/ red / PVC 300/500V	EN 50525-2-31	HAR
				[013-619] - Wire HELUKABEL 28761/ H05V-U/ 0.5mm2/ black/ PVC 300/500V	EN 50525-2-31	HAR
Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-M_TERM	[013-621] - Wire HELUKABEL 28766/ H05V-U/ /0.5mm2/ white/ PVC 300/500V	EN 50525-2-31	HAR
Wire		MILOO-ELECTRONICS Sp. z o.o	WK-VIA-M_EQUI	[013-617] - Wire HELUKABEL 29090/ H05V-K/ 0.5mm2/ pink/ PVC 300/500V	EN 50525-2-31	HAR
Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-M_SPD_IN	[013-622] - Wire HELUKABEL 28763/ H05V-U/0.5mm2/blue/ PVC 300/500V	EN 50525-2-31	HAR
				[013-623] – Wire HELUKABEL 28764/ H05V-U/0.5mm2/ brown/ PVC 300/500V	EN 50525-2-31	HAR
Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-M_SPD_OUT	[013-622] - Wire HELUKABEL 28763/ H05V-U/ 0.5mm2/ blue/ PVC 300/500V	EN 50525-2-31	HAR
				[013-623] – Wire HELUKABEL 28764/H05V-U/ 0.5mm2/ brown/ PVC 300/500V	EN 50525-2-31	HAR
Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-M_ZHAGA_3P	[013-615] – Wire HELUKABEL 29087/H05V-K/ 0.5mm2/ grey/ PVC 300/500V	EN 50525-2-31	HAR
				[013-616] – Wire HELUKABEL 29084/H05V-K/ 0.5mm2/ brown/ PVC 300/500V	EN 50525-2-31	HAR

				[013-617] – Wire HELUKABEL 29090/ H05V-K/ 0.5mm2/ pink/ PVC 300/500V	EN 50525-2-31	HAR
Wire	B	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-M_ZHAGA_3P	[E58-277] - Connector TE Connectivity 2213858-1 (ZHAGA) // Ta= -40... +90°C	EN 61984 UL 17057	DEKRA
Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-M_ZHAGA_4P	[013-615] – Wire HELUKABEL 29087/H05V-K/ 0.5mm2/ grey/ PVC 300/500V	EN 50525-2-31	HAR
				[013-616] – Wire HELUKABEL 29084/H05V-K/ 0.5mm2/ brown/ PVC 300/500V	EN 50525-2-31	HAR
				[013-617] - Wire HELUKABEL 29090/ H05V-K/ 0.5mm2/ pink/ PVC 300/500V	EN 50525-2-31	HAR
				[013-618] – Wire HELUKABEL 29089/ H05V-K/ 0.5mm2/ yellow/ PVC 300/500V	EN 50525-2-31	HAR
Wire	B	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-M_ZHAGA_4P	[E58-277] - Connector TE Connectivity 2213858-1 (ZHAGA) Ta= -40... +90°C	EN 61984 UL 17057	DEKRA
Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-M_PS	[013-622] – Wire HELUKABEL 28763/ H05V-U/ 0.5mm2/ blue/ PVC 300/500V	EN 50525-2-31	HAR
				[013-623] - Wire HELUKABEL 28764/ H05V-U/ 0.5mm2/ brown/ PVC 300/500V	EN 50525-2-31	HAR
Wire	A	MILOO-ELECTRONICS Sp. z o.o	WK-VIA-M_ST10V	[013-624] - Wire HELUKABEL 28767/ H05V-U/ 0.5mm2/ grey/ PVC 300/500V	EN 50525-2-31	HAR

## APPENDIX TO THE LICENCE/CERTIFICATE No. 0312/ENEC/23

page 15

				[013-619] – Wire HELUKABEL 28761/H05V-U/ 0.5mm <sup>2</sup> / black/ PVC 300/500V	EN 50525-2- 31	HAR
Wire	A	MILOO- ELECTRONICS Sp. z o.o	WK-VIA- M_ROZ_IN	[013-622] - Wire HELUKABEL 28763/ H05V-U/ 0.5mm <sup>2</sup> / blue/ PVC 300/500V	EN 50525-2- 31	HAR
				[013-623] - Wire HELUKABEL 28764/ H05V-U/ 0.5mm <sup>2</sup> / brown/ PVC 300/500V	EN 50525-2- 31	HAR
Wire	A	MILOO- ELECTRONICS Sp. z o.o	WK-VIA- M_ROZ_OUT	[013-622] - Wire HELUKABEL 28763/ H05V-U/ 0.5mm <sup>2</sup> / blue/ PVC 300/500V	EN 50525-2- 31	HAR
				[013-623] - Wire HELUKABEL 28764/ H05V-U/ 0.5mm <sup>2</sup> / brown/ PVC 300/500V	EN 50525-2- 31	HAR
Wire	A	MILOO- ELECTRONICS Sp. z o.o	WK-VIA- M_P_ZAS	[013-625] – Cable HELUKABEL 36001/ H05RN-F/ 2x0.75mm <sup>2</sup> / black/ 300/500V	EN 50525-2- 21	HAR
Wire	A	MILOO- ELECTRONICS Sp. z o.o	WK-VIA- M_P_ZAS_ST	[013-626] - Cable HELUKABEL 36008/ H05RN-F/ 4G0.75mm <sup>2</sup> / black/ 300/500V	EN 50525-2- 21	HAR
Wire	A	MILOO- ELECTRONICS Sp. z o.o	WK-VIA- M_P_ZAS_ST_ TE	[013-626] - Cable HELUKABEL 36008/ H05RN-F/ 4G0.75mm <sup>2</sup> / black/ 300/500V	EN 50525-2- 21	HAR
				[E05-858] - Connector CMP-T- THB-391-A4C 4 PIN D7-12 SERIA TEETUBE Ta= -40... +125°C /IP68	EN 60998-1 EN 60998-2-1 EN 60998-2-3	ENEC
Wire	A	MILOO- ELECTRONICS Sp. z o.o	WK-VIA- M_P_ZAS_TE	[013-625] – Cable HELUKABEL 36001/ H05RN-F/ 2x0.75mm <sup>2</sup> / black/ 300/500V	EN 50525-2- 21	HAR



				[E05-858] - Connector CMP-T- THB-391-A4C 4 PIN D7-12 SERIA TEETUBE Ta= -40... +125°C /IP68	EN 60998-1 EN 60998-2-1 EN 60998-2-3	ENEC
Surge Protection Device [E58-279]	B	LITTELFUSE	LSP05GI240PX 3316	240Vac, 50/60Hz Ta= -40... +85°C	EN 61643-11	DEKRA
Surge Protection Device [E58-281]	B	OSRAM	SPD 10 275 D	275Vac, 50/60Hz Ta= -40... +70°C IP20	EN 61643-11	TUV
Surge Protection Device [E58-280]	B	OSRAM	SPD 10 275 G2	275Vac, 50/60Hz Ta= -40... +70°C IP20	EN 61643-11	TUV
Surge Protection Device [E58-282]	B	LITTELFUSE	LSP05GI240SX 3316	240Vac, 50/60Hz Ta= -40... +85°C	EN 61643-11	DEKRA
Surge Protection Device [E58-283]	B	LITTELFUSE	LSP10GIHP277 SX3316	277Vac, 50/60Hz Ta= -45... +75°C	EN 61643-11	DEKRA
Surge Protection Device [E58-284]	A	OSRAM	SPD 15 275 G2	275Vac, 50/60Hz Ta= -40... +70°C IP20	EN 61643-11	TUV
Surge Protection Device [E58-285]	A	OSRAM	SPD 20 275 G2	275Vac, 50/60Hz Ta= -40... +70°C IP20	EN 61643-11	TUV
Surge Protection Device [E58-286]	A	OSRAM	SPD 15 275 D	275Vac, 50/60Hz Ta= -40... +70°C IP20	EN 61643-11	TUV
Surge Protection Device [E58-287]	A	OSRAM	SPD 10 275 P5 G2	275Vac, 50/60Hz Ta= -40... +70°C IP65	EN 61643-11	TUV
Surge Protection Device [E58-288]	A	OSRAM	SPD 15 275 P5 G2	275Vac, 50/60Hz Ta= -40... +70°C IP65	EN 61643-11	TUV
Surge Protection Device [E58-289]	A	OSRAM	SPD 20 275 P5 G2	275Vac, 50/60Hz Ta= -40... +70°C IP65	EN 61643-11	TUV

## APPENDIX TO THE LICENCE/CERTIFICATE No. 0312/ENEC/23

page 17

Surge Protection Device [E58-290]	B	PHILIPS	Surge Protector Class-II 929001607106	255Vac, 50/60Hz Ta= -40... +70°C	EN 61643-11	DEKRA
Surge Protection Device [E58-291]	A	PHILIPS	Surge Protector Class-II Serial 929002102880	255Vac, 50/60Hz Ta= -40... +70°C IP20	EN 61643-11	TUV
Connector [E05-913]	B	KREALUX	P02-2J/9	450V, 24A Designation: L N	EN 60998-1 EN 60998-2-2	VDE
Connector [E05-915]	B	KREALUX	P02-4J/9	450V, 24A Designation: L N DA+ DA-	EN 60998-1 EN 60998-2-2	VDE
Safety switch [E58-168]	B	Yuyao Sineyi Electronic Technology Co.,LTD	M29	450VAC, 16A Ta max = 110°C	EN 61984 EN 60998-2-1 EN 60998-1	TUV

## Supplementary information:

<sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-CB2039.

The codes above have the following meaning:

- A - The component is replaceable with another one, also certified, with equivalent characteristics
- B - The component is replaceable if authorised by the test house
- C - Integrated component tested together with the appliance
- D - Alternative component

**Date:** Data: **2023-05-17**      **Signature:**