

ELEMENT 30/220-240/12 G2

ELEMENT G2 12V | Constant Voltage – Non dimmable



Product family features

- Linear form factor
- Power factor: >0.95 at full load
- Total Harmonic Distortion (THD): < 15%
- Output voltage tolerance: < 3%
- Up to 30,000 h @ Tc max / up to 50,000 h @ Tc -10 °C
- Lifetime: up to 30,000 h (temperature at max. tc)

Product family benefits

- High efficiency (up to 91 %)
- Higher quality of light thanks to < 3% output ripple current
- Excellent price/performance ratio
- Class II design for wide application
- 3 years guarantee

Areas of application

- Decorative lighting in hospitality, restaurants and Shops
- Shelf lighting
- Cove lighting
- Under cabinet lighting

Product datasheet

Technical data

Electrical data

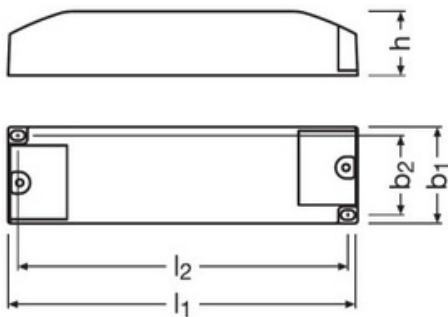
Nominal input voltage	220...240 V
Mains frequency	50...60 Hz
Input voltage AC	198...264 V
Power factor λ	> 0.95
Efficiency in full-load	86 % ¹⁾
Device power loss	4.9 W ²⁾
Inrush current	<13.2 A ³⁾
Max. ECG no. on circuit breaker 10 A (B)	29
Max. ECG no. on circuit breaker 10 A (C)	46
Max. ECG no. on circuit breaker 16 A (B)	47
Max. ECG no. on circuit breaker 16 A (C)	73
Max. ECG no. on circuit breaker 25 A (B)	74
Surge capability (L-N)	1 kV
Nominal output voltage	12.5 V
Nominal output power	30 W
Maximum output power	30 W
U-OUT (working voltage)	12.125 V ~ 12.875 V
Surge capability (L/N-Ground)	2 kV

1) at 230 V, 50 Hz

2) At Full load, 230 V, 50 Hz

3) Max, $t_h = 200\mu s$

Dimensions & weight



Product weight	100.00 g
Cable cross-section, input side	0.75...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²

Product datasheet

Wire preparation length, input side	5.0 mm
Length	145.0 mm
Width	40.0 mm
Height	26.5 mm

Colors & materials

Casing material	Plastic
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Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	75 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	30000 h ¹⁾
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¹⁾ At maximum T_c = 75°C / 10% failure rate / At maximum T_c = 65°C / 10% failure rate

Capabilities

Dimmable	No
Short-circuit protection	Yes
Intended for no-load operation	No
Suitable for fixtures with prot. class	I / II
Number of channels	1

Certificates & standards

Approval marks – approval	BIS / CCC / CE / MM / RCM / UKCA
Standards	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 60598-1/Acc. to EN 62384/Acc. to CISPR 15/Acc. to EN 61000-3-2/IEC 61000-3-2
Type of protection	IP20

Logistical data

Commodity code	85044083900
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

Product datasheet

Date of Declaration	16-05-2023
Primary Article Identifier	4062172277846
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	e2b90eda-fe30-4c3d-80b6-ea0098b06c18

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Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172277846	ELEMENT 30/220-240/12 G2	Shipping carton box 40	421 mm x 315 mm x 96 mm	12.73 dm ³	4559.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

ELEMENT 60/220-240/12 G2

ELEMENT G2 12V | Constant Voltage – Non dimmable



Product family features

- Linear form factor
- Power factor: >0.95 at full load
- Total Harmonic Distortion (THD): < 15%
- Output voltage tolerance: < 3%
- Up to 30,000 h @ Tc max / up to 50,000 h @ Tc -10 °C
- Lifetime: up to 30,000 h (temperature at max. tc)

Product family benefits

- High efficiency (up to 91 %)
- Higher quality of light thanks to < 3% output ripple current
- Excellent price/performance ratio
- Class II design for wide application
- 3 years guarantee

Areas of application

- Decorative lighting in hospitality, restaurants and Shops
- Shelf lighting
- Cove lighting
- Under cabinet lighting

Product datasheet

Technical data

Electrical data

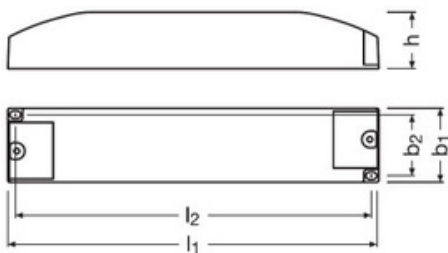
Nominal input voltage	220...240 V
Mains frequency	50...60 Hz
Input voltage AC	198...264 V
Power factor λ	> 0.95
Efficiency in full-load	88 % ¹⁾
Device power loss	8.2 W ²⁾
Inrush current	<20.1 A ³⁾
Max. ECG no. on circuit breaker 10 A (B)	15
Max. ECG no. on circuit breaker 10 A (C)	23
Max. ECG no. on circuit breaker 16 A (B)	23
Max. ECG no. on circuit breaker 16 A (C)	26
Max. ECG no. on circuit breaker 25 A (B)	26
Surge capability (L-N)	1 kV
Nominal output voltage	12.5 V
Nominal output power	60 W
Maximum output power	60 W
U-OUT (working voltage)	12.125 V ~ 12.875 V
Surge capability (L/N-Ground)	2 kV

1) at 230 V, 50 Hz

2) At Full load, 230 V, 50 Hz

3) Max, $t_h = 230 \mu s$

Dimensions & weight



Product weight	308.00 g
Cable cross-section, input side	0.75...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²

Product datasheet

Wire preparation length, input side	5.0 mm
Length	200.0 mm
Width	40.0 mm
Height	31.0 mm

Colors & materials

Casing material	Plastic
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Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	85 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	30000 h ¹⁾
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¹⁾ At maximum T_c = 85°C / 10% failure rate / At maximum T_c = 75°C / 10% failure rate

Capabilities

Dimmable	No
Short-circuit protection	Yes
Intended for no-load operation	No
Suitable for fixtures with prot. class	I / II
Number of channels	1

Certificates & standards

Approval marks – approval	BIS / CCC / CE / MM / RCM / UKCA
Standards	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 60598-1/Acc. to EN 62384/Acc. to CISPR 15/Acc. to EN 61000-3-2/IEC 61000-3-2
Type of protection	IP20

Logistical data

Commodity code	85044083900
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

Product datasheet

Date of Declaration	16-05-2023
Primary Article Identifier	4062172277860
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article. bc9f50e8-073a-4a25-bcbf-a99b52f711fc
Declaration No. in SCIP database	

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Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172277860	ELEMENT 60/220-240/12 G2	Shipping carton box 30	421 mm x 225 mm x 141 mm	13.36 dm ³	9853.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

ELEMENT 120/220-240/12 G2

ELEMENT G2 12V | Constant Voltage – Non dimmable



Product family features

- Linear form factor
- Power factor: >0.95 at full load
- Total Harmonic Distortion (THD): < 15%
- Output voltage tolerance: < 3%
- Up to 30,000 h @ Tc max / up to 50,000 h @ Tc -10 °C
- Lifetime: up to 30,000 h (temperature at max. tc)

Product family benefits

- High efficiency (up to 91 %)
- Higher quality of light thanks to < 3% output ripple current
- Excellent price/performance ratio
- Class II design for wide application
- 3 years guarantee

Areas of application

- Decorative lighting in hospitality, restaurants and Shops
- Shelf lighting
- Cove lighting
- Under cabinet lighting

Product datasheet

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	50...60 Hz
Input voltage AC	198...264 V
Power factor λ	> 0.95
Efficiency in full-load	89 % ¹⁾
Device power loss	14.8 W ²⁾
Inrush current	< 50 A ³⁾
Max. ECG no. on circuit breaker 10 A (B)	5
Max. ECG no. on circuit breaker 10 A (C)	8
Max. ECG no. on circuit breaker 16 A (B)	8
Max. ECG no. on circuit breaker 16 A (C)	12
Max. ECG no. on circuit breaker 25 A (B)	13
Surge capability (L-N)	1 kV
Nominal output voltage	12.5 V
Nominal output power	120 W
Maximum output power	120 W
U-OUT (working voltage)	12.125 V ~ 12.875 V
Surge capability (L/N-Ground)	2 kV

¹⁾ at 230 V, 50 Hz

²⁾ At Full load, 230 V, 50 Hz

³⁾ Max, $t_h = 300 \mu s$

Dimensions & weight



Product weight	400.00 g
Cable cross-section, input side	0.75...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²

Product datasheet

Wire preparation length, input side	5.0 mm
Length	260.0 mm
Width	40.0 mm
Height	31.0 mm

Colors & materials

Casing material	Plastic
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Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	90 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	30000 h ¹⁾
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¹⁾ At maximum T_c = 90°C / 10% failure rate / At maximum T_c = 80°C / 10% failure rate, At T_c = 70°C / 10% failure rate

Capabilities

Dimmable	No
Short-circuit protection	Yes
Intended for no-load operation	No
Suitable for fixtures with prot. class	I / II
Number of channels	1

Certificates & standards

Approval marks – approval	BIS / CCC / CE / MM / RCM / UKCA
Standards	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 60598-1/Acc. to EN 62384/Acc. to CISPR 15/Acc. to EN 61000-3-2/IEC 61000-3-2
Type of protection	IP20

Logistical data

Commodity code	85044083900
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

Product datasheet

Date of Declaration	16-05-2023
Primary Article Identifier	4062172277884
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	c4d3c985-889c-4e55-b90c-7df4628caa3d

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Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172277884	ELEMENT 120/220-240/12 G2	Shipping carton box 20	421 mm x 285 mm x 105 mm	12.60 dm ³	8546.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Disclaimer

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ELEMENT 180/220-240/12 G2

ELEMENT G2 12V | Constant Voltage – Non dimmable



Product family features

- Linear form factor
- Power factor: >0.95 at full load
- Total Harmonic Distortion (THD): < 15%
- Output voltage tolerance: < 3%
- Up to 30,000 h @ Tc max / up to 50,000 h @ Tc -10 °C
- Lifetime: up to 30,000 h (temperature at max. tc)

Product family benefits

- High efficiency (up to 91 %)
- Higher quality of light thanks to < 3% output ripple current
- Excellent price/performance ratio
- Class II design for wide application
- 3 years guarantee

Areas of application

- Decorative lighting in hospitality, restaurants and Shops
- Shelf lighting
- Cove lighting
- Under cabinet lighting

Product datasheet

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	50...60 Hz
Input voltage AC	198...264 V
Power factor λ	> 0.95
Efficiency in full-load	91 % ¹⁾ 17.8
Device power loss	W ²⁾
Inrush current	< 70 A ³⁾
Max. ECG no. on circuit breaker 10 A (B)	3
Max. ECG no. on circuit breaker 10 A (C)	5
Max. ECG no. on circuit breaker 16 A (B)	6
Max. ECG no. on circuit breaker 16 A (C)	8
Max. ECG no. on circuit breaker 25 A (B)	9
Surge capability (L-N)	1 kV
Nominal output voltage	12.5 V
Nominal output power	180 W
Maximum output power	180 W
Surge capability (L/N-Ground)	2 kV

¹⁾ at 230 V, 50 Hz

²⁾ At Full load, 230 V, 50 Hz

³⁾ Max, $t_h = 240\mu s$

Dimensions & weight



Product weight	540.00 g
Cable cross-section, input side	0.75...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²
Wire preparation length, input side	5.0 mm

Product datasheet

Length	300.0 mm
Width	40.0 mm
Height	31.0 mm

Colors & materials

Casing material	Plastic
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Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	90 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	30000 h ¹⁾
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¹⁾ At maximum T_c / 10% failure rate

Capabilities

Dimmable	No
Short-circuit protection	Yes
Intended for no-load operation	No
Suitable for fixtures with prot. class	I / II
Number of channels	1

Certificates & standards

Approval marks – approval	BIS / CCC / CE / MM / RCM / UKCA
Standards	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 60598-1/Acc. to EN 62384/Acc. to CISPR 15/Acc. to EN 61000-3-2/IEC 61000-3-2
Type of protection	IP20

Logistical data

Commodity code	85044083900
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	16-05-2023

Product datasheet

Primary Article Identifier	4062172277907
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	68ad0e1b-a75c-4445-a485-2b5930bd725b

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Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172277907	ELEMENT 180/220-240/12 G2	Shipping carton box 20	421 mm x 325 mm x 105 mm	14.37 dm ³	11430.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

ELEMENT 250/220-240/24 G2

ELEMENT G2 24V | Constant Voltage – Non dimmable



Product family features

- Linear form factor
- Power factor: >0.95 at full load
- Total Harmonic Distortion (THD): < 15%
- Output voltage tolerance: < 3%
- Up to 30,000 h @ Tc max / up to 50,000 h @ Tc -10 °C
- Lifetime: up to 30,000 h (temperature at max. tc)

Product family benefits

- High efficiency up to 92%
- Higher quality of light thanks to < 3% output ripple current
- Excellent price/performance ratio
- Class II design for wide application
- 3 years guarantee

Areas of application

- Decorative lighting in hospitality, restaurants and Shops
- Shelf lighting
- Cove lighting
- Under cabinet lighting

Product datasheet

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	50...60 Hz
Input voltage AC	198...264 V
Power factor λ	> 0.95
Efficiency in full-load	92 % ¹⁾
Device power loss	21.7 W ²⁾
Inrush current	< 70 A ³⁾
Max. ECG no. on circuit breaker 10 A (B)	2
Max. ECG no. on circuit breaker 10 A (C)	3
Max. ECG no. on circuit breaker 16 A (B)	3
Max. ECG no. on circuit breaker 16 A (C)	5
Max. ECG no. on circuit breaker 25 A (B)	5
Surge capability (L-N)	1 kV
Nominal output voltage	24 V
Nominal output power	250 W
Maximum output power	250 W ⁴⁾
Galvanic isolation primary/secondary	3 kV
Surge capability (L/N-Ground)	1 kV
Total harmonic distortion	< 15 %
Output ripple Voltage (100 Hz)	< 3 %

1) at 230 V, 50 Hz

2) At Full load, 230 V, 50 Hz

3) At 250 μ s

4) at steady state

Dimensions & weight



Product weight	848.00 g
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Product datasheet

Cable cross-section, input side	0.75...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²
Wire preparation length, input side	5.0 mm
Wire preparation length, output side	5.0 mm
Length	375.0 mm
Width	50.0 mm
Height	35.0 mm

Colors & materials

Casing material	Plastic
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Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	90 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	30000 h ¹⁾
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¹⁾ At maximum T_c / 10% failure rate

Capabilities

Dimmable	No
Overheating protection	Yes
Overload protection	Yes
Intended for no-load operation	No
Type of connection, input side	Fixed connection (terminal)
Type of connection, output side	Fixed connection (terminal)

Certificates & standards

Approval marks – approval	CE / RCM / CCC
Standards	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to CISPR 15/Acc. to IEC 61000-3-3/Acc. to IEC 61547
Type of protection	IP20

Logistical data

Commodity code	85044083900
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Product datasheet


Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	25-10-2023
Primary Article Identifier	4062172333467
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article. 764d4142-8018-4a89-90ef-0cd6a3e1cccc
Declaration No. in SCIP database	

Additional product information

- EMI pass verified with wire length of 3 m, from the ECG to the LED module at full load.
- Wiring longer than 3 m from ECG to LED module is possible, but site installation conditions may interfere with EMI with these longer cables. EMI is therefore not verified in this condition.
- For wires longer than 3 m, the appropriate cable cross section must be carefully selected to reduce voltage drop.

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 User instruction ELEMENT G2 Constant Voltage Power Supply

Ecodesign regulation information:

Intended for use with LED modules.

The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
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Product datasheet

Logistical Data

4062172333467	ELEMENT 250/220-240/24 G2	Shipping carton box 10	406 mm x 264 mm x 113 mm	12.11 dm ³	9023.00 g
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The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

References / Links

For more information on the multi-level guarantee and the terms and conditions of the guarantee visit <https://>

▶ www.inventronics-light.com/multilevel-guarantees

Disclaimer

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