Control C700 12–24V DC / 700mA 16VA
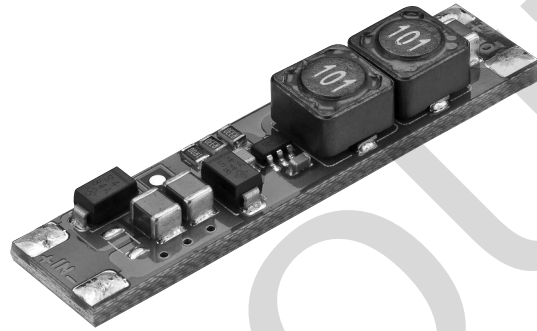Fixed output

Product description

- Constant current converter 700 mA for TALEXmodule EOS

- Suitable for centrally supplied LED installations

- Slim compact design

- No-load and overtemperature protection

- Connection: solder points

- Premounted thermally conductive adhesive tape

- Suitable for mounting on Tridonic profiles

→

Standards, page 3

**Wiring diagrams and installation examples**, page 4

TRIDONIC

EAC CE RoHS

Control C700 12–24V DC / 700mA 16VA
Fixed output

Technical data

Input voltage DC	12 – 24 V
Max. input voltage DC	29 V
Efficiency	> 85 %
Output voltage[①]	max. 22 V (Uin – 2 V)
Output power	16 W
Max. power loss	0.65 W
Output current	0.7 A
Max. cable length (LED Driver – LED module)	20 m
Ambient temperature ta	-25 … +50 °C
Max. casing temperature	80 °C
Dimensions L x W x H	44 x 10 x 6 mm
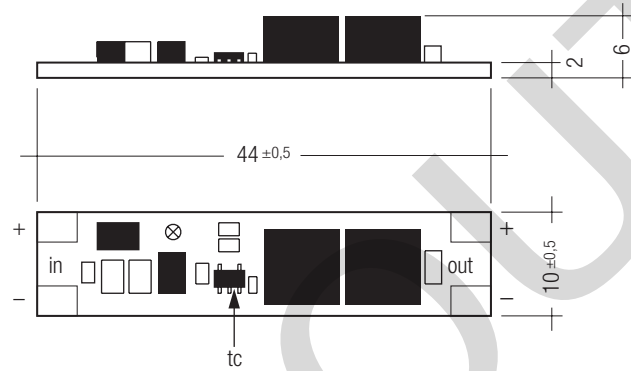
Ordering data

Type	Article number	Packaging, carton	Weight per pc.
C700 12-24VDC	28000875	50 pc(s).	0.005 kg

[①] Output voltage depends on supply voltage and the number of conected Modules (Uin – 2 V).

Standards
EN 61347-1
EN 61347-2-13
EN 61547
EN 62384

Possible number of eos-modules connected to
control LED C700 12–24 V / 700 mA 16 VA

U_{in} = 24 V DC [1]

colour	P211/P211-2	P214	P215	P216
red, amber	1–9	n. A.	n. A.	n. A.
green, blue, white	1–6	1	–	–

U_{in} = 12 V DC [1]

colour	P211/P211-2	P214	P215	P216
red, amber	1–4	n. A.	n. A.	n. A.
green, blue, white	1–3	–	–	–

[1] Output voltage depending on supply voltage and the number of connected
module (U_{in} − 2 V).

Possible number of control LED C700 12–24 V / 700 mA 16 VA connected to
Tridonic converter
Numbers valid for full loaded converter LED C700 (16 VA)

converter	number of control LED C700
K001; 12 V / 24 V 10 VA	0
K301; 12 V / 24 V 10 VA	0
K220; 12 V / 24 V 25 VA	1
K240; 12 V / 24 V 100 VA	6

Example wiring diagram control LED C700 with eos modules

up to 12 TALEX control LED C700
with maximum load
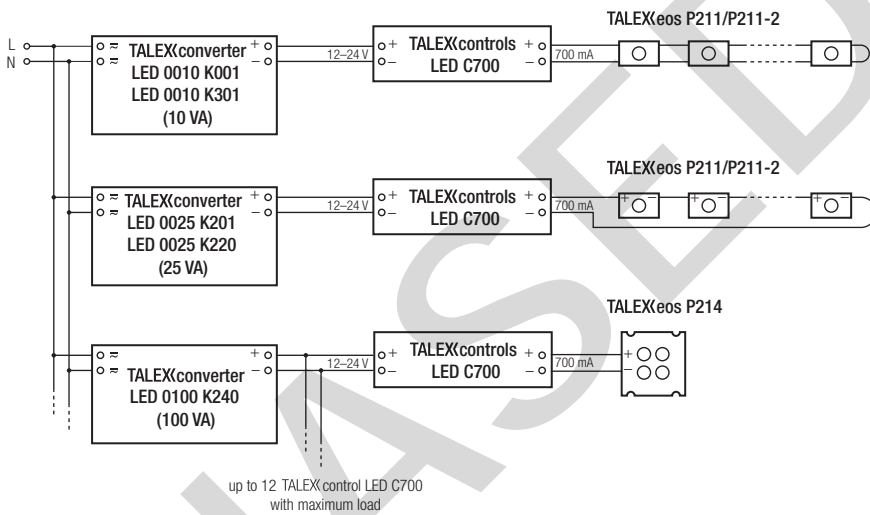
⚠ eos modules must be wired in series
connection to the constant current source
control LED C700.

Connection of an on/off switch for the control LED C700 12–24 V / 700 mA 16 VA
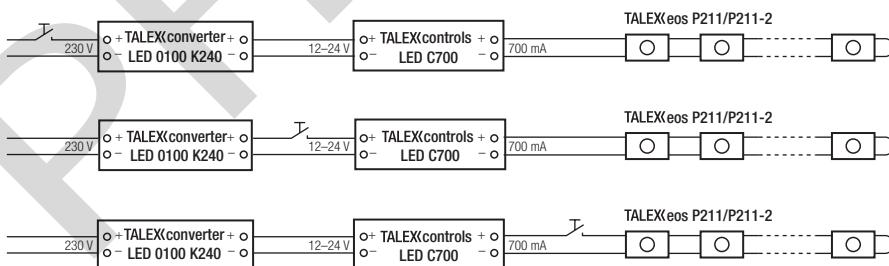
⚠ Load switch allowed under any operating
condition.

control LED C700 is not suitable for
dimming (e.g PWM)

Connection technology
The wiring can be in flexible cable (without ferules) or solid with a cross section of 0.25 mm² to 0.75 mm². The wire cables have to be soldered onto the dedicated solder pads.

Soldering information
Soldering has to be done under voltage-free conditions. The soldering temperature shall be chosen between 270 and 320 °C.

Mounting instructions
The control LED C700 has to be glued onto a plain carrier by using the pre-mounted adhesive tape on the back side of the module. The protective foil therefore has to be removed from the adhesive tape. The carrier area has to be properly cleaned with appropriate methods.

Carrier material
The mounting onto metal carrier is allowed.

Dirt and humidity
The control LED C700 has no dedicated protection against contamination or humidity. Protection against contamination and humidity is within the responsibility of the OEM manufacturer.

EOS/ESD safety guidelines
The device / module contains components that are sensitive to electrostatic discharge and may only be installed in the factory and on site if appropriate EOS/ESD protection measures have been taken. No special measures need be taken for devices/modules with enclosed casings (contact with the pc board not possible), just normal installation practice.
Please note the requirements set out in the document EOS / ESD guidelines (Guideline_EOS_ESD.pdf) at: http://www.tridonic.com/com/en/technical-docs.asp

Safety switch off and SELV
Safety switch off and SELV have to be provided by the supplying converter unit. The use of converter from Tridonic in combination with control LED C700 ensures the required protection functionality.

Protection class
Suitable for use in protection class SK I and SK II luminaires.

Temperature ratings
The ambient operating temperature shall not exceed 50 °C.
The rated max. temperature tc must not exceed 80 °C under any operating conditions.

tc point

Data sheet 10/16-778-3
Subject to change without notice.
www.tridonic.com
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