TALEX(control LED C700 12-24V DC/700 mA 16VA

CE RoHS



- constant current source 700 mA for TALEXeos modules
- constant output current 700 mA DC
- suitable for central supplied LED installations
- high efficiency > 85 %
- slim compact shape

- no-load and overtemperature protection
- connection technology: solder pads
- thermal conductive adhesive tape, premounted
- suitable for mounting on TridonicAtco mounting profiles, e.g. TALEX(profile Z200

packaging:
box of 50

Designed according to: EN 61347-1 EN 61347-2-13 EN 61547 EN 62384

type		LED C700 12-24V pc /700 mA 16VA
article number		28000875
input voltage Uin	V dc	1224
max. input voltage Uin max	V dc	29
efficiency ®	%	>85
output current	Abc	0.700
output voltage ®	VDC	max. 22 (Uin – 2 V)
output power	W	16
max. power loss	W	0.65
max. cable length (converter \rightarrow TALEX(module)	m	20
ambient temperature ta	°C	$-25 \rightarrow +50$
rated max. temperature tc	°C	80
weight	kg	0.005
dimensions LxWxH	mm	44 x 10 x 6

Possible number of TALEX(cos-modules connected to TALEX(control LED C700 12–24V/700 mA 16VA $U_{IIII} = 24$ V nc.[©]

$U_{in} = 24 V DC^{\odot}$				
colour	P211/P211-2	P214	P215	P216
red, amber	1–9	n.A.	n.A.	n.A.
green, blue, white	1–6	1	-	-

$U_{\text{in}}=12V\,\text{Dc}\,^{\text{\tiny (1)}}$

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

 $^{\odot}$ Output voltage depending on supply voltage and the number of connected TALEX(module (Uin - 2V).

Possible number of TALEX/control LED C700 12–24V/700 mA 16VA connected to TridonicAtco TALEX/converter

Numbers valid for full loaded TALEX/converter LED C700 (16VA)

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



Example wiring diagram TALEX(control LED C700 with TALEX(eos modules





TALEXeos modules must be wired in series connection to the constant current source TALEXcontrol LED C700.

Connection of an on/off switch for the TALEX(control LED C700 12-24V/700 mA 16VA



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 TALEX/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 TALEX/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 TALEX/converter from TridonicAtco in combination with TALEX/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