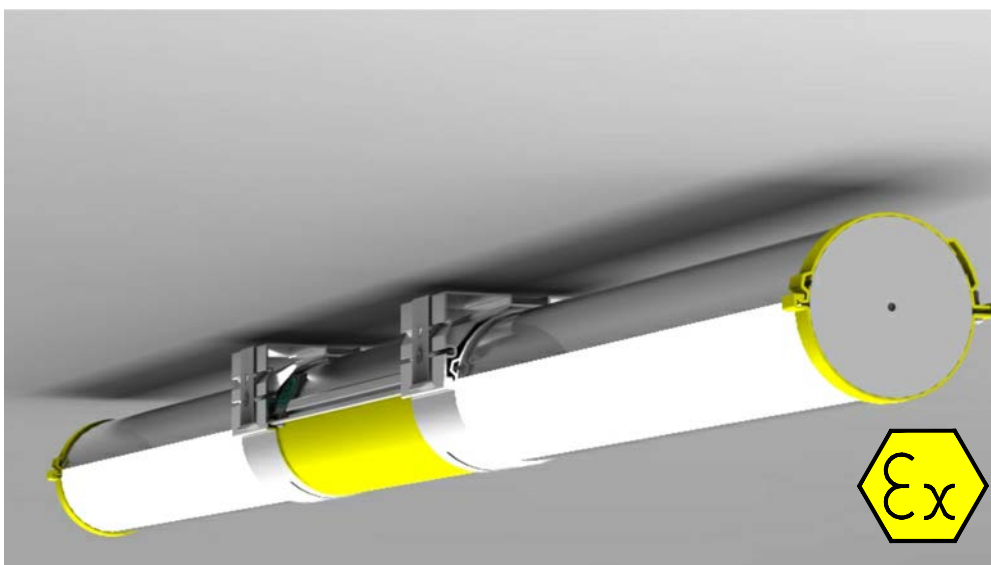


Installation manual LEDlightpipe Hybrid ATEX

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1.0 Technical data

Input voltage	Vac	120-270
Frequency	Hz	50/60
Power(max)	Watt	67
Dimming	- -	DALI
Powerfactor (100%)	- -	0,97
Powerfactor (20%)	- -	0,79
Shock resistance	- -	IK10+
Dust / Water resistance	- -	IP65
Color temperature	K	5000 (standard) different temperatures on request
Color rendering (Ra)	- -	above 70 different value's on request (max. Ra=92)
LED type	- -	NICHIA (219 series)
LED arrangement	- -	NO parallel circuits
Ambient temperature	°C	-40°C / +40°C

Explosion protection - -



II 3 G Ex nA IIC T4 Gc
II 3 D Ex tc IIIC T 71 °C IP65

Certificate number - -

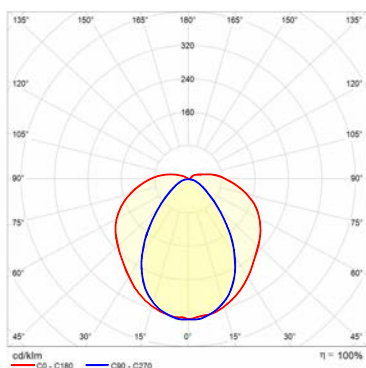
DEKRA 13ATEX0059

Standards - -

EN 60079-0 : 2009
EN 60079-15 : 2010
EN 60079-31 : 2009



2.0 Photometric data



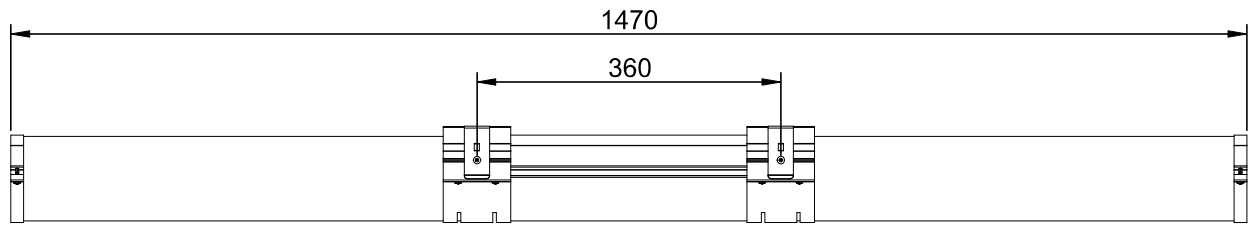
Pic.1

Rated luminous flux: 4100 Lumen

Data for calculation in Dialux/Relux
available on website:

www.BB-Lightconcepts.com

3.0 Dimensions



Pic.2

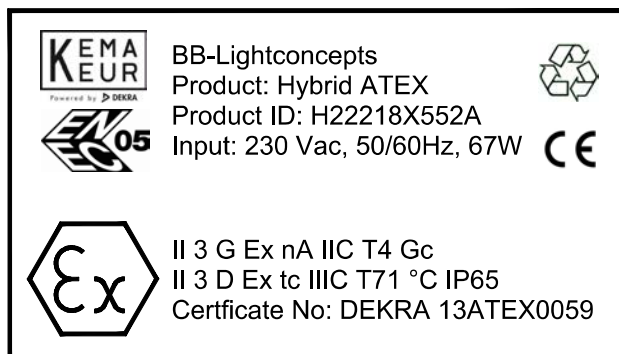
Side view



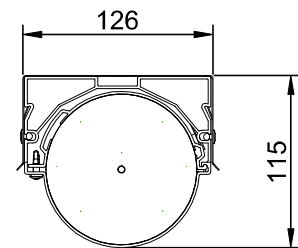
Pic.3

Weight: 4.8 Kg

4.0 Productlabels



Label 1



Pic.4

Front view

"WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS"
"WARNUNG - GEFAHR DURCH ELEKTROSTATISCHE ENTLADUNG - SIEHE BETRIEBSANLEITUNG"
"ATTENTION - DANGER DE DÉCHARGE ÉLECTROSTATIQUE - VOIR INSTRUCTION DE SERVICE"

Label 2

5.0 Electrical connection



Pic.5

Item No. 96.051.5053.6



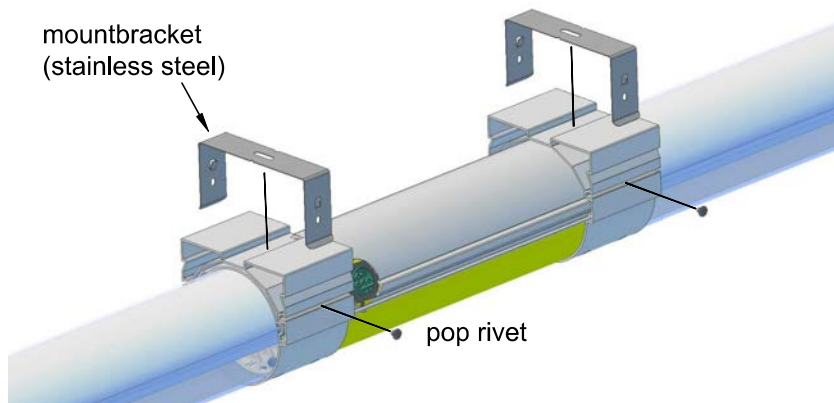
Female connector RST20I5S B1 M01 A TB04

Device connectors, standard M25, RST20i5, 5 pole, female, screw connection, mains 250V/dimming, 20A, color of coding: turquoise, color of nut: black



6.0 Installation

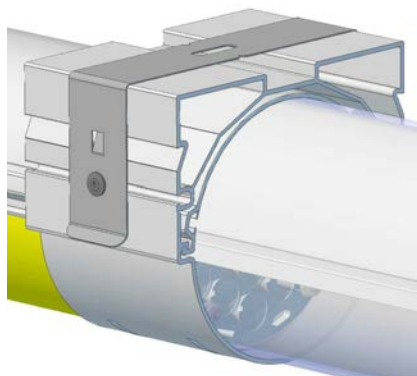
The LEDlightpipe should only be installed if there is no explosive atmosphere present, the cleaning should only be done with a damp cloth because of the danger of static electricity.



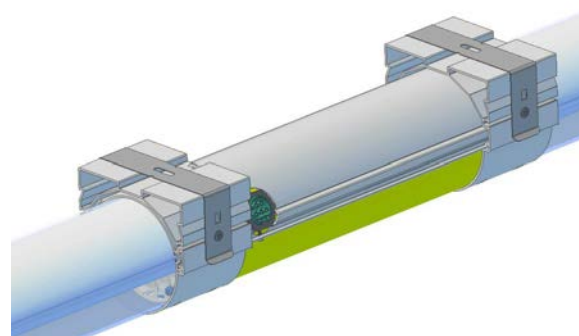
Pic.6

Mount the bracket against the ceiling/wall and click in the LEDlightpipe ATEX.

Secure the fixture with the pop rivets.

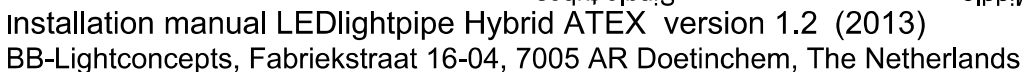


Pic.7



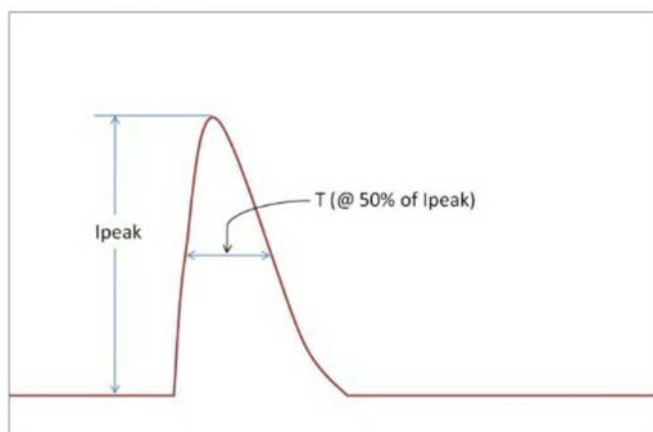
Pic.8

Hybrid Endseller prices 2013 R1

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8.0 Installation Inrush current

Inrush Current Info:



Vin	Ipeak	T (@ 50% of Ipeak)
120 Vrms	58 A	140 µs
230 Vrms	108 A	140 µs
277 Vrms	126 A	140 µs
305 Vrms	142 A	140 µs

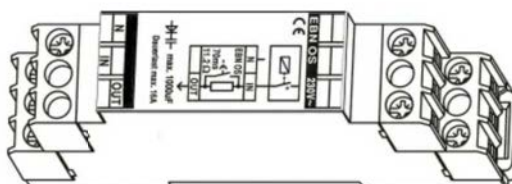
Note: Equation Valid for T<1ms					Mini ABB	MCB - B Type				MCB - C Type				Fuse Types gG and gL			
		Pin(max)(W)	I _{max} (A)	T(ms)	K	10A	16A	20A	25A	10A	16A	20A	25A	10A	16A	20A	25A
929000702202	Xitanium 150W 0.35-0.7A GL Prog sXt	167	130	0.140	19.4	4	7	9	11	7	12	15	19	10	15	19	24
929000702302	Xitanium 75W 0.35-0.7A GL Prog sXt	83	130	0.140	19.4	4	7	9	11	7	12	15	19	19	31	38	48

The use of an inrush current limiter can increase the amount of drivers connected to the MCB.

20 pieces per MCB (3kW/MCB) is a safe quantity.

Examples off inrush current limiters:

Inrush current limiter EBN-OS
For POWERTRONIC ECGs



POWERTRONIC ECGs in combination with EBN-OS

POWERTRONIC ECGs come with an electronic power factor correction (PFC), which causes a high inrush current. If several PT ECGs are switched on at the same time, the inrush current can be so high that the automatic circuit breaker will trigger. Therefore, the number of ECGs per automatic circuit breaker is limited.

The inrush current limiter allows to connect more ECGs to one automatic circuit breaker.

http://www.osram.nl/osram_bx/NL/Professioneel645693/E-VSA/ECGs_for_HID/EBN-OS/index.html

Short Specification:

- 16A, 23A, 33A peak limiting available
- AC-Line Input 184...265Vac, 16A cont.
- DIN-Rail 35mm standard
- Wall mounting standard
- Screw terminals 26...10AWG
- Integrated bypass relay
- Inrush current limitation time 300/500ms
- Capacitive Load 1500uF...4000uF
- Integrated temperature fuse
- IP20 UL94V-0 housing DIN43880 for DIN/VDE0603 switch cabinets



http://www.camtec-gmbh.com/files/ESB101_E.pdf

9.0 Hybrid types "double tube" middle, 2 LEDunits

