

Translation

EU-Type Examination Certificate Supplement 4

Change to Directive 2014/34/EU

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 09 ATEX E 050 X**

Product: **Floodlight type FLT 10 * * * * * and PX(I) 04* * * * ***

Manufacturer: **Cooper Crouse-Hinds GmbH**

Address: **Neuer Weg Nord 49, 69412 Eberbach, Germany**

This supplementary certificate extends EC-Type Examination Certificate No. BVS 09 ATEX E 050 X to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.

DEKRA EXAM GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential Report No. BVS PP 09.2055 EU.


Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012 + A11:2013	General requirements
EN 60079-1:2007	Flameproof enclosure "d"
EN 60079-7:2015	Increased Safety "e"
EN 60079-31:2014	Protection by Enclosure "t"

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

 **II 2G Ex d IIB T2 - T4 Gb**
II 2G Ex d eb IIB T2 - T4 Gb
II 2D Ex tb IIIC T85°C - T210°C Db

DEKRA EXAM GmbH
Bochum, 2017-07-31

Signed: Jörg Koch

Certifier

Signed: Ralf Leiendecker

Approver

13 **Appendix**

14 **EU-Type Examination Certificate**

**BVS 09 ATEX E 050 X
Supplement 4**

15 **Product description**

15.1 **Subject and type**

Floodlight type FLT 10 * * * * * and PX(I) * * * * *

15.2 **Description**

The Floodlight type FLT 10 * * * * * and PX(I)04* * * * * consists of

- The lamp enclosure with lampholder and reflector, made in type of protection flameproof enclosure "d" and
- A terminal box to connect the outer power supply, depending on the used cable gland made in type of protection flameproof enclosure "d" or increased safety "e".

As another type an additional compartment box, made in type of protection flameproof enclosure "d" can be installed to include external components like ballasts, ignitors or capacitors.

This compartment box can be replaced by the enclosures EJB110, EJB120 and EJB130 made in type of protection flameproof enclosure "d" to install several ballasts and capacitors.

The electrical supply is realized by separately certified cable glands

With this supplement the certificate is changed to Directive 2014/34/EU.

(Annotation: In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.)

Reason for the supplement:

- Change to Directive 2014/34/EU
- Update of the standards:
EN 60079-0:2012+A11:2013, EN 60079-7:2015 and EN 60079-31:2014
- Change of the type code
- Overpressure type-test for terminal box and compartment box with four times the reference pressure to replace the overpressure routine test with 1.5 times the reference pressure

Description of Product:

Floodlight type FLT 10 *1) **2) **3) *4) *5) *6) **7)

- 1) Luminaire: S = HST/HSE
H = HIT/HIE
0 = Universal variant
- 2) Lamp power: 07 = 70 W
10 = 100 W
15 = 150 W
25 = 250 W
40 = 400 W
- 3) Lampholder: 27 = E27 lampholder
40 = E40 lampholder
- 4) Rated supply voltage: 1 = 230 V / 50 Hz
2 = 240 V / 60 Hz
3 = 220 V / 50 Hz
- 5) Reflector design: N = Narrow Beam
W = Wide Beam
- 6) Gap surface: 0 = Neutral (greased)
P = PTFE surface
- 7) Counter number without influence on explosion protection

Floodlight type PX *****1) *2) *****3)

- 1) Luminaire and Lamp-power:
- | | | |
|-------|---------|-------------|
| 0460 | = HST | 600 W |
| 0440S | = HS | 400 W |
| 0440H | = HI | 400 W |
| 0440M | = HME | 400 W |
| 0425 | = HS/Hi | 250 W |
| 0425M | = HME | 250 W |
| 0415 | = HS/Hi | 150 W |
| 0410 | = HS/Hi | 100 W |
| 0407 | = HS/Hi | 70 W |
| 0405 | = QT | up to 500 W |
| 10405 | = HS/Hi | up to 600 W |
- 2) Reflector design: N = Narrow Beam
W = Wide Beam
- 3) Surface: --- = Epoxy finished
PTFE = PTFE finished

Listing of all components used referring to older standards

Subject and type	Certificate	Standards
Feed through and protective conductor terminal blocks, types WDU and WPE	DEMKO 14 ATEX 1338 U	EN 60079-0:2012 + A11:2013 EN 60079-7:2007
Terminal type 790 1108 R	PTB 00 ATEX 3102 U	EN 60079-0:2009 EN 60079-7:2007

15.3 Parameters

15.3.1 Floodlight PX ***** *

Rated supply voltage 220 V – 254 V 50/60 Hz $\lambda \geq 0.85$

Lamp	Type	Lampholder	Ambient temperature (Gas)		Ambient temperature (Dust)		
			-20 °C	-20 °C	-20 °C	-20 °C	
			... +55 °C	... +40 °C	... +55 °C	... +40 °C	
PX 0407	70 W HS.	E 27	T4	T4	T100 °C	T85 °C	
	70 W HI.	E 27	T4	T4	T105 °C	T90 °C	
PX 0410	100 W HS.	E 40	T4	T4	T130 °C	T115 °C	
	100 W HI.	E 27	T4	T4	T120 °C	T105 °C	
PX 0415	150 W HS.	E 40	T4	T4	T130 °C	T115 °C	
	150 W HI.		T4	T4	T120 °C	T105 °C	
PX 0425	250 W HS.		T3	T4	T145 °C	T130 °C	
	250 W HI.		T3	T4	T145 °C	T130 °C	
PX 0425	250 W HME.		T3	T3	T165 °C	T150 °C	
	400 W HS.		T3	T3	T190 °C	T175 °C	
PX 0440	400 W HI.		T3	T3	T185 °C	T170 °C	
	400 W HME.		T2	T3	T201 °C	T186 °C	
PX 0460	600 W HS.		T2	T3	T210 °C	T195 °C	
PX 0405	≤ 500 W QT		T2	T3	T200 °C	T185 °C	
PXI 0405	70 W HS.		E 27	T4	T4	T100 °C	T85 °C
	70 W HI.		E 27	T4	T4	T105 °C	T90 °C
	100 W HS.		E 40	T4	T4	T130 °C	T115 °C
	100 W HI.		E 27	T4	T4	T120 °C	T105 °C
	150 W HS.	E 40	T4	T4	T130 °C	T115 °C	
	150 W HI.		T4	T4	T120 °C	T105 °C	
	250 W HS.		T3	T4	T145 °C	T130 °C	
	250 W HI.		T3	T4	T145 °C	T130 °C	
	250 W HME.		T3	T3	T165 °C	T150 °C	
	400 W HS.		T3	T3	T190 °C	T175 °C	
	400 W HI.		T3	T3	T185 °C	T170 °C	
	400 W HME.		T2	T3	T201 °C	T186 °C	
600 W HS.	T2		T3	T210 °C	T195 °C		

15.3.2 Floodlight FLT 10 ***** *

Rated supply voltage 220 V – 240 V 50/60 Hz $\lambda \geq 0.85$

Lamp	Type	Lampholder	Ambient temperature (Gas)		Ambient temperature (Dust)	
			-55 °C	-55 °C	-55 °C	-55 °C
			... +55 °C	... +40 °C	... +55 °C	... +40 °C
FLT 10_07	70 W HS.	E 27	T4	T4	T130 °C	T115 °C
	70 W HI.	E 27	T4	T4	T130 °C	T115 °C
FLT 10_10	100 W HS.	E 40	T4	T4	T130 °C	T115 °C
	100 W HI.	E 27	T4	T4	T130 °C	T115 °C
FLT 10_15	150 W HS.	E 40	T4	T4	T130 °C	T115 °C
	150 W HI.		T4	T4	T130 °C	T115 °C
FLT 10_25	250 W HS.		T3	T3	T160 °C	T145 °C
	250 W HI.		T3	T3	T160 °C	T145 °C
FLT 10_40	400 W HS.		---	T3	---	T190 °C
	400 W HI.		---	T3	---	T190 °C

16 **Report Number**

BVS PP 09.2055 EU, as of 2017-07-31

17 **Special Conditions for Use**

- In case of the parts forming the joint shall be replaced or repaired, the information on the dimensions of the flameproof joints must be obtained from the manufacturer, because the gap length of the flameproof joint of this apparatus are in parts longer and the gap width are in parts smaller than required by Table 1 of EN 60079-1:2007.
- The use of the floodlight is only permitted in a horizontal installation position. Corresponding instructions in the operating instructions must be observed.
- For the installation and assembly of components (bushings, cable-glands and connection facilities), only those which correspond technically to the standards listed on the cover sheet are approved for the conditions of use and need to be separately certified.
- For the completion of the flameproof enclosures, at least bolts of strength class A2-70 must be used.

18 **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 **Drawings and Documents**

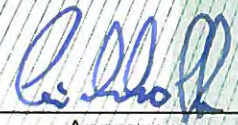
Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
Bochum, dated 2017-07-31
BVS-Pz/Ret/Nu A 20150316



Certifier



Approver