

# Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **24 326 - 04 HH**

Company **Pfannenberg GmbH  
Werner-Witt-Straße 1  
21035 Hamburg, GERMANY**

Product Description **Optical Flash Beacon**

Type **CWB-ATEX 310 06 ... ..**

Environmental Category **A, H, EMC2**

Technical Data /  
Range of Application **Type 310 06 90 \* \*\*\*  
Power supply 12...48V DC; 24V...42V AC, 50/60Hz;  
Type 310 06 58 \* \*\*\*  
Power supply 60...80V DC;  
Type 310 06 13 \* \*\*\*  
Power supply: 110...127V AC, 50/60Hz;  
Type 310 06 10 \* \*\*\*  
Power supply: 230V AC, 50/60Hz;  
\*) Lens colour, \*\*\*) Lens material version;  
Flash frequency: 1Hz; Flashing Energy: 5 Joule;  
Explosion protection:  
Ex II 2G/D  
EEx de IIC T6 (Ta <=40°C) or T5 (Ta<=50°C) (G)  
IP 66 - T85°C (Ta<=40°C) or T100°C (Ta<=50°C) (D)  
LCIE 02 ATEX 6113  
Vibration test characteristic curve 4 (2.3g).**

Test Standard **Guidelines for the Performance of Type Tests Part2, Edition 2003**

Documents **Test reports : RS 4591/04, dated 2004-09-02; 4592/04 dated 2004-06-21; KRIWAN 003046\_01\_A, dated 2003-02-27; KRIWAN 001200\_01\_A, dated 2001-08-14; KRIWAN 004222\_01\_C, dated 2004-06-30; KRIWAN 004321\_01\_C, dated 2004-09-13; Circuit diagrams.**

Remarks **Manufacturers Operating and Installation Instructions are be observed.**

Valid until **2014-09-23**

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File No. **I.A.06**

**Hamburg, 2009-09-23**

Type Approval Symbol



**Germanischer Lloyd**

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