

# 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. 93 586 - 90 HH

Company Pintsch Bamag  
Antriebs- & Verkehrstechnik GmbH  
Hünxer Str. 149  
46537 Dinslaken, GERMANY

Product Description Rotating Beacons

Type KLF, KLFW

Environmental Category C, EMC 1

Technical Data /  
Range of Application Housing: GRP, self extinguishing plastic  
Cover: PC (polycarbonat) hoods in red, amber, or blue  
Lamp: halogen type H 1 - 12 V /55 W or 24 V /70 W  
Mounting: horizontal  
Degree of protection: IP 65

KLF: 3 lense optical beacon with vertically inclined lenses, 60 mm diameter  
Light emission: beam angle 14,5° above and 6° below the horizontal  
Power supply: 12 V DC or 24 V DC

KLFW: 3 lense optical beacon with vertically inclined lenses, 60 mm diameter  
Light emission: beam angle 14,5° above and 6° below the horizontal  
Power supply: 42 V, 60 V, 150 V or 230 V AC  
Lamp: halogen type H1 - 12 V / 55W

Test Standard Guidelines for the Performance of Type Approvals, Chapter 2, Edition 2003

Documents Description D 635 04 - 11.78 E  
Test report: Krafftahrt Bundesamt (KBA)  
Lichttechnisches Institut Karlsruhe;  
IMST EMC Report No. 6100/6610-548 dd. 09.05.2008

Remarks None

Valid until 2013-02-09

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Type Approval Symbol



File No. I.A.06

Hamburg, 2008-05-26

Germanischer Lloyd

  
Jürgen Wittburg

  
Günter Demmig