



CERTIFICATE

No. Z10 11 12 69900 003

Holder of Certificate: DURAG GmbH
Kollastrasse 105
22453 Hamburg
GERMANY

Factory(ies): 69900

Certification Mark:



Product: Safety components
Compact Flame Monitor

Model(s): D-LX 200
D-LX 720

Parameters: Supply voltage: 24 VDC +/- 20%
Operating temperature: -40°C to 85°C

Tested according to: DIN EN 230:2005
DIN EN 298:2004
DIN EN 50156-1:2005
DIN EN 61508:2002 part 1 to 7 (SIL 3)

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: C-F 1387-02/11

Date, 2011-12-21

(Alfred Beer)



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Appendix: Functional Safety data sheet

Compact Flame Monitor D-LX 200, D-LX 720

Valid Configurations	D-LX 200 xx-20 (/xx; /xxEx), D-LX 200 xx-40 (/xx; /xxEx) D-LX 720 xx-20 (/xx; /xxEx), D-LX 720 xx-40 (/xx; /xxEx)
Safety-related output signal	Flame relay, Status relay
Type of assessment	DIN EN 61508 (full assessment)
Assessor	TÜV Süd (Certificate: Z10 11 12 69900 003)
SIL	SIL 3
Mode of operation	High demand mode
Hardware Fault Tolerance	1*
$\lambda_{sd} + \lambda_{su}$	3061 FIT
λ_{dd}	2086 FIT
λ_{du}	46 FIT
SFF	99.12 %
PFH	$2.7 \times 10^{-8} / h$
Recommended proof test interval	15 years

* Number of faults on which the system will behave safe under all circumstances.

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