D-LX 110 Compact flame monitor

Optical monitoring of individual burner flames

- Consistent technology for worldwide applications
- Functional Safety up to SIL 3
- Local display (visible also for Ex versions)



Features

Large temperature range

Deployable without change, certified and without need of accessories for isolation, heating or cooling

- Two channel control unit module
 Highest safety simultaneously with highest availability
- Two flame ON/OFF contacts
 1x normally open, 1x normally closed
- D-LX 110 and D-LX 710

Variants for direct view or for combination with fibre optic systems, also for hazardous areas

- Low maintenance requirements
 Easy exchange of consumable parts
- Local display

Operational status and settings visible at a single glance, for complete temperature range and all variants

Benefits

Easy adjustment

Direct access to available settings shortens commissioning times

Versatile detection

Choice of available detectors allows for monitoring of flames of all fuels within same device family

- Versatile for most variable applications
 Same device technology can be used for most different geographical regions and based on varying systems of standards
- Flexible for changed requirements
 If requirements for plant change (Ex zones, need for fibre optic systems) adaptation via a replacement within same device family usually possible
- Flexible operation support
 Possibility to adapt device settings outside of factory enables fast local replacements with smaller local stocks

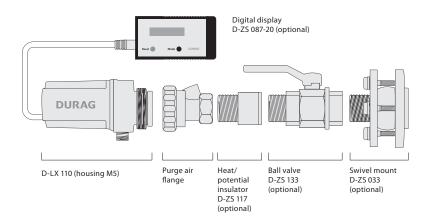
Technical data

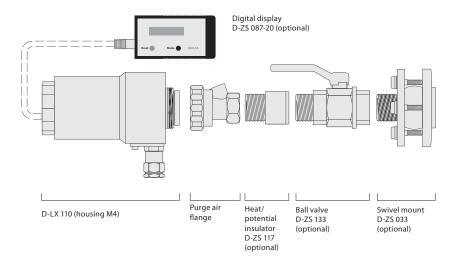
Spectral sensitivity	UL: 185 260 nm UAF: 280 410 nm UA: 190 520 nm
	IS: 300 1100 nm IG: 780 1800 nm
Operating mode	Intermittent and continous operation
Functional Safety	Self-monitoring and fail-safe, supports safety chains up to SIL 3
Switching threshold	Flame intensity
Local display	LEDs, always visible at a single glance for all versions
Flame failure detection time (FFDT)	0.5 5 s (in steps of 0.5 s)
Flame ON/OFF contact	Normally open: active when flame ON Normally closed: active when flame OFF
Ready-for-operation contact	Normally open: active when no error
Switching capacity	Relay contacts: Max. 24 V=, 0.5 A Max. 250 V \sim , 2.0 A for 250 V/cos ϕ = 1.0
Analogue output	0/4 20 mA (selectable), Load max. 750 Ohm
Opening angle	6° Version UL: 6° horizontal, 12° vertical

Electrical data	24 V, 7 W, PELV
Ambient conditions	−40 +75 °C; Version UL: −40 +70 °C
Degree of protection	IP66/IP68, NEMA 4X IP65, NEMA 4X (/MP7) IP66, NEMA 4X (Ex versions)
Connections	Sight tube G 1¼" or NPT 1¼", F Purge air G ½" or NPT ½", F
Dimensions	Housing M5 100 x 100 x 260 mm Housing M4 Ø120 mm, length approx. 310 mm
Weight	Housing (without cable) M5 approx. 1.3 kg M4 approx. 3.0 kg

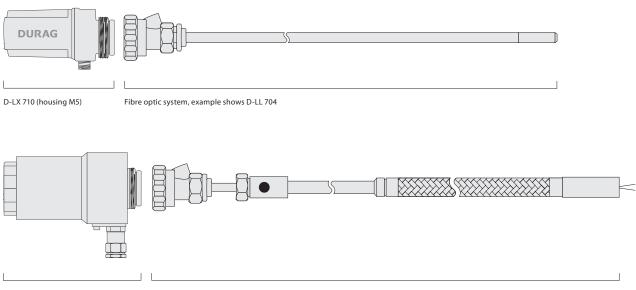
Explosion protection	D-LX 110/710/M4/84Ex II 2G Ex db IIC T6 or T5 Gb II 2D Ex tb IIIC T85 °C or T100 °C Db
	D-LX 110/710/M4/85Ex Cl. I, Div. 1, Gr. A, B, C, D T6/T5 Cl. II, Div. 1, Gr. E, F, G T6/T5; Cl. III
	D-LX 110/710/M5/86Ex Cl. I, Div. 2, Gr. A, B, C, D T6/T4 Cl. II, Div. 2, Gr. E, F, G T6/T4; Cl. III
	D-LX 110/710/M5/87Ex II 3G Ex ec nC IIC T6 or T4 Gc II 3D Ex tc IIIC T80 °C or T130 °C Dc

D-LX 110 COMPACT FLAME MONITOR FOR DIRECT VIEW | CONFIGURATION OF ACCESSORIES FOR MOUNTING





D-LX 710 COMPACT FLAME MONITOR | USE WITH FIBRE OPTIC SYSTEM



D-LX 710 (housing M4)

Fibre optic system, example shows D-LL 703

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