DURAG GROUP

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)

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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

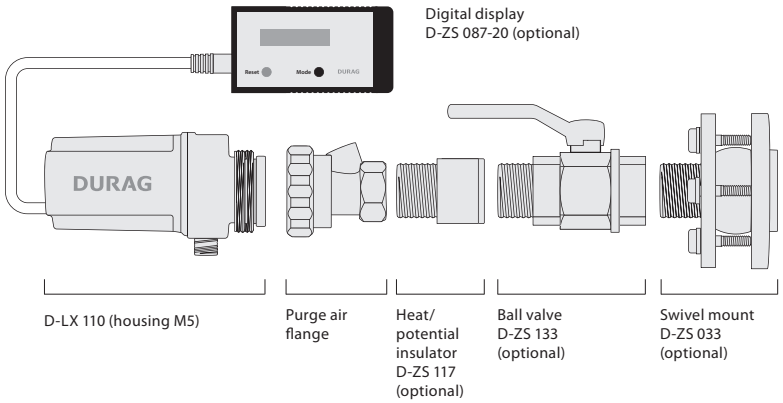
Technical data

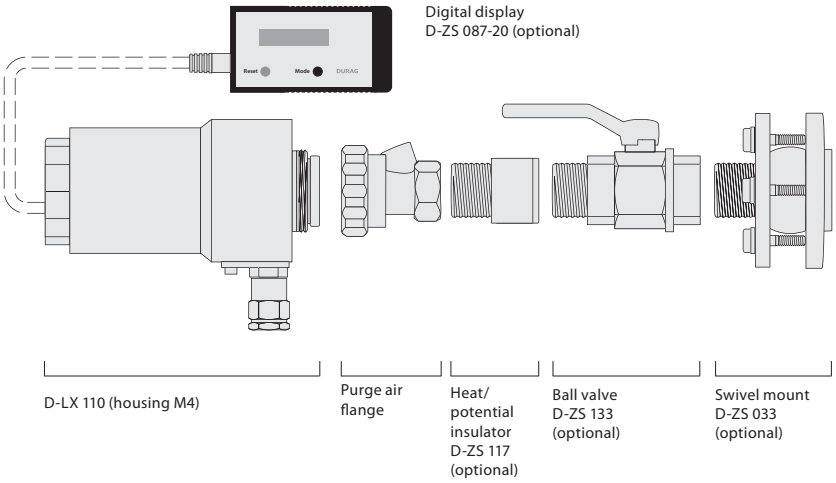
Spectral sensitivity	UL: 185 … 260 nm UAF: 280 … 410 nm UA: 190 … 520 nm IS: 300 … 1100 nm IG: 780 … 1800 nm
Operating mode	Intermittent and continous operation
Functional Safety	Self-monitoring and fail-safe, supports safety chains up to SIL 3
Switching threshold	Flame intensity
Local display	LEDs, 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~, 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