

**IN-LINE (ILX) PROBE
ISA DATA SHEET**



General	1	Manufacturer	Boreal Laser Inc.
	2	Analyzer Model No.	Not Specified
	3	Measurement Head Model No.	In-Line (ILX) Cell Assembly (e.g. BL-__-ILX-__)
	4	Warranty Period	3 years Full Warranty
Cabling Options	5	Cabling Type	Single Mode Fibre Optic (FC/APC) and Shielded CAT6/5e Cabling (RJ45)
	6	Allowable Cable Lengths	5 - 300 m (15 - 1,000 ft) available in 10m (30 ft) Increments (See Target Gas Requirements)
	7	Fiber Optic Cabling Specificaiton	SMF-28 Family of Fibres (SFM-28e, SFM-28e+, SFM-28 Ultra)
	8	Fiber Optic Connector Specificaiton	Threaded Fiber Connector / Angled Polished Connector (FC/APC) - Green Boot
	9	CAT6/5e Cabling Specificaiton	CAT6 (625MHz), 4-Bonded Pair, F/UTP-Foil Shield, 23 AWG Solid Bare Conductors
	10	CAT6/5e Connector Specificaiton	RJ45 (T-568A) Shielded Connector
	11	5-20 m (15-60 ft) Cable Lengths	3/4" Flexible Conduit with 3/4" Connectors
	12	30-300m (90-1,000ft) of Cable - Option #1	Standard PVC Jacketing to be ran in User supplied Conduit or Cable Tray
	13	30-300m (90-,1000ft) of Cable - Option #2	Armoured (Aluminium) and PVC Jacketed - 17.3mm (0.680") Fiber & 13mm (0.511") CAT6
	15	Measurement Head Junction Box Material	Poly Vinyl Chloride (PVC) with Removeable Front Cover
	16	Measurement Head Junction Box Size	175 x 175 mm (6.9 x 6.9 inches) with four (4) 7.11 (0.280") Thru Holes for Mounting
	17	Measurement Head Junction Box Fittings	Free Floating Bulkhead Connectors for Fiber Optic (FC/APC) and CAT6/5e (RJ45)
	In-Line (ILX) Cell	18	Optical Configuration
19		Assembly Composition	In-Line (ILX) Cell, Transmitter Cover, Receiver Cover
20		Assembly Weight	Application dependent on size of cell
21		Assembly Dimension (LxWxH)	Application dependent on size of cell
22		Physical Configuration	Remote from Analyzer (GasFinder3-MC) via Fibre Optic and CAT6/5e Cabling
23		Mounting Hardware Configuration	ANSI B16.5 Standard Flange Sizes 1", 1.5", 2" 150#, 300#, 600#
24		Maximum Distance to Analyzer	Up to 300m of Single Mode Fibre and Shielded CAT6/5e Cabling (10m Increments)
25		Material of Construction	316 SS, 304 SS, Hastelloy, Carbon Steel, Others Available Upon Request
26		Area Classification	(A)Ex ib IIC T5 Tamb <70°C Gb (Equivalent to Class 1 Div/Zone 1 and Groups A,B,C,D)
27		Method of Protection	Intrinsic Safety "ib" & "Gb" as per IEC 60079-11
28		Process Temperature	-45°C to +150°C (-49 to +300°F) Active Measurement Path / Process
29		Process Pressure	50 to 200 kPa Absolute (7.25 to 29 psia)
30		Beam Divergence	6.4mm (1/4") @ 0.2m (0.65ft) = (32 milliradian x path length (m) = laser dot size (mm))
31		Window Material	Sapphire Standard, Tempered Borosilicate, Others Available
32		Power	Non-powered (Passive)
33		Cable Connections	Single Mode Fibre (FC/APC) and CAT6/5e (RJ-45) - Included in Assembly
34		Dual Gas Configuration #1	Any two gases except O2, CO2L, COL, CO2UL can share an In-Line (ILX) Cell
35		Dual Gas Configuration #2	CO2L, COL, CO2UL can share In-Line (ILX) Cell
36		Dual Gas Configuration #3	O2 always requires a dedicated In-Line (ILX) Cell
Recommended Accessories	37	Alignment Kit	BL-OAK-MC
	38	In-Line Response Cell	BL-ILRC-___ (HF, HCN, NH3, or CH4)
	39	Commissioning and Spares Assembly	BL-CASA
	40	Calibration Certificate Extension	BL-QDRP
	41	120-220 VAC Power Supply	BL-HAPS or BL-HAPS-S
Latest Revision	42	2/03/21	