

3L-DP

Early Warning Liquid Leakage Locating Detection System

ELSA
ADVANCED SYSTEMS

3L-DP is a **Liquid Leakage Locating Detection System** with common interface through **Dry Contact** and/or remote supervision **RS485 Modbus**.



(Mounting: 4 Modules M36 DIN-Rail)

General features of ELSA control panel - 3L-DP

- Maximum accumulated length of sensing cable : 180m
- Maximum accumulated length of jumper cable : 300m
- Precision to locate leak location : +/- 1m or +/- 0.5%
- Failsafe operation : ability to operate in loop installation; ability to detect/locate liquid leakage during cable break
- Time to detect Leak/Cablebreak : 3 seconds typical
- Liquid leak detection data : Typically 20mm in length of liquid (such as tap water) in full contact with sensing cable
- Remote supervision by RS-485 Modbus
- ASIC-based digital location principle (patent pending) with inherent temperature stability, zero-drift and very low power consumption

Environmental ratings

- Operating temperature : -10 to 50 degree C (indoor installation only)
- Storage temperature : -20 to 70 degree C
- Humidity : 5% to 95% non-condensing



Power requirements

- Power Supply : 230 +/- 15% VAC, 50/60 Hz
- Optional Input : 115 VAC/50-60 Hz or 12 to 30 VAC/DC power input
- Power consumption : 1.5 VA/1.2 W max.

Power relay switching characteristics

- Alarm dry contact : Operation - SPDT
Switching current - 0.5A at 250 VAC; 1A at 30 VDC

Serial communication interface

- Physical support : RS485-two-wire, ESD and surge protected as per IEC 6100-4-5
- Protocol : Modbus

Compliance to International safety standards:

- EMC emission : EN 61000-6-3(2001)-Electromagnetic compatibility. Generic emission standard for residential, commercial and light industrial environments.
- EMC immunity : EN 61000-6-1(2001)-Electromagnetic compatibility. Generic immunity standard for residential, commercial and light industrial environments.

Characteristics and Performance of ELSA sensing cable - 3L-LS

- Cable diameter : 6.5 mm avg.
- Continuity wires : White and Red insulated with flame-retardant polymer
- Sensing wires : 2 x Black wires semi-conductive polymer
- Carrier : Flame-retardant polymer material with greenish color in high visibility
- Fire resistance : Non-flame propagating and self-extinguishing

Warranty

1 year (Limited Warranty)



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