All Lexicomm Emergency Voice Communications Systems (EVCS) are designed to comply fully with the requirements of BS5839-9: 2021 for use as a fire telephone system (FT), disabled refuge system (DRS) or as a combined system when both fire telephones and disabled refuge call points are required.

Matching Design to Master

Fully Compliant to BS5839-9: 2021

Assist Call acknowledgement

Full Duplex operation

Secure Network

Simple set up, plug and play

Overview

The Lexicomm LX228 repeater station consists of a self-contained enclosure housing a master handset, an EN54-4:A2 2006 power supply & battery charger and can be surface or flush mounted

The case is made from powder coated zintec, with a smoked perspex door covering the handset. 20mm cable knock-outs are provided for all necessary cables as well as space for the backup 12V 7AH VRSLA battery.

The repeater station is microprocessor controlled, it has an identical appearance to a LX228 master station and can control a maximum of 8 lines. Lines auto identify by flashing Red for EVCS calls, Blue for assist calls or flashing Green for Connected calls as detailed in BS5839-9: 2021.

Assist Calls can be acknowledged by pressing the zone key (as required by BS8300) and will return to alarm if not reset within two minutes

A maximum of one repeater station can be connected to a ViLX-228 master station, no configuration is required.

Technical Specification

DETAILS	VILX-228-0
POWER SUPPLY AND CHARGER	
AC input	230VAC +/- 10% 50/60Hz
Internal supply	5V, 16V, 27V DC
Supply	Monitored Open, Short, Fuses, High Impedance
Protection	Deep discharge, Short, Thermal
Battery type	1 x 12V 7AH VRSLA
Standby time	24Hrs Quiescent, 3 Hours Use
Mains fuse	240V 1A HRC
Battery fuse	750mA PTC
Charge current	500mA
INPUTS	
Remote enable	Short to use
OUTPUTS	
Number	2, Fault & In use
Type	Volt free relay
Contact	30V DC 1A
CONTROLS	
Buttons	8 Zone keys
Zone LEDs (x8)	RGB Status LEDs
Fault LEDs	3, PSU, System, General
Supply LEDs	2, AC ,DC present

NETWORK CABLES	
Type	Enhanced*
Cores	2x2 core 1mm or 1.5mm
Distance	500m
STANDARDS COMPLIANCE	
EMC	EN55035,EN55032
LVD	EN IEC62368-1
Product Family	BS5839-pt9, BS9999, BS8300

DIMENSIONS

	Panel	Bezel	Cut-out
Height	300mm	350mm	305mm
Width	350mm	400mm	355mm
Depth	95mm	1mm	85mm
Weight	4.2kg		
*Refer to BS5839-9: 2021 for exceptions			

LX228 Repeater Network Schematic

Repeater Station

Master Station

Cable Key

1 off 2 Core 1.5mm CSA
Standard Rated Fire Cable

1 off 2 Core 1.5mm CSA
Enhanced Rated Fire Cable

1 off 2 Core 0.22mm CSA
Standard LSF (alarm Cable) Minimum

Network 2 off 2 core 1.5mm CSA
Standard fire rated unless
Type A or type C outstations
are used, then it must be enhanced

Emergency Telephone

Accesible Toilet — Room Door Indicator — Cancel By Toilet — Toilet Pull Cord

Accesible Bedroom — Room Door Indicator — Call Cancel By Bed — Shower Pull Cord — Cancel By Toilet — Toilet Pull Cord