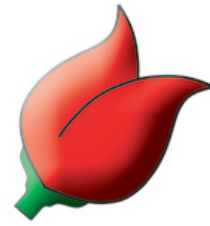# Features

- **Embedded Industrial Graphics Module**
    - 10.4" TFT Active Matrix Colour Panel
    - SVGA Resolution
    - 120º Viewing Angle

- **Embedded Industrial Control Module**
    - 300MHz Geode Processor (Fanless)
    - 256MB Solid State Disk
    - 128MB RAM (Non Socketed)
    - Windows CE or Linux
    - Site Programmable

- **RS-422 Network**
    - Optically Isolated
    - Full Duplex to 115Kbps

- **Ethernet Network**
    - 10BaseT Ethernet
    - Static and Dynamic IP

- **Operates -10°C to +65°C**
    - All industrial components

- **Heavy Duty Enclosure**
    - Electroless Nickel Plated
    - Environmental protection to IP67
    - Rugged Construction

Description

The Type L0LA Graphics Display is a fully integrated water proof display module. L0LA, as it is affectionately known, combines a mix of industrial components and rugged manufacture making it suitable for all industrial applications where distributed display technology is required.

Obelix

10.4" Colour Display

Type L0LA

Pempek Systems

Australia
Unit 3 / 13 Hoyle Ave
Castle Hill NSW 2154
Phone +(612) 9634 2540
Fax   +(612) 9894 0379

USA
640 Bizzell Drive
Lexington KY 40510
Phone +(859) 252 4439
Fax   +(859) 252 4641

Web   www.pempek.com.au
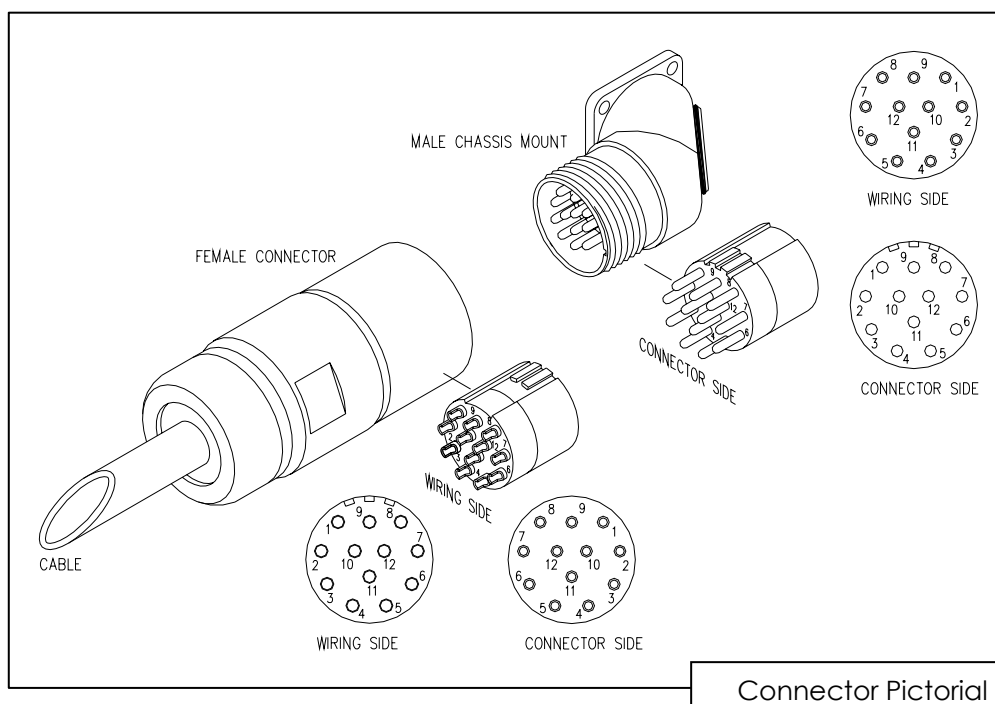
Typical Applications

- Continuous Miners
- Continuous Haulage
- Long Wall Shearers
- Mobile Bolters
- Mobile Roof Supports
- Remote Control Scoops
- Remote Control Loaders
- Control Room Surface Monitoring

Ordering Information

Part Number	Description
L0LA0101	Linux Operating System
L0LA0201	Windows CE Operating System
H0LA0101	Connector Assembly 2.2 metres

Interface Description

The Type L0LA Display Module utilizes an industrial waterproof connector that is unique when configured for use with the Obelix Control System via type or gender physically preventing improper installation.
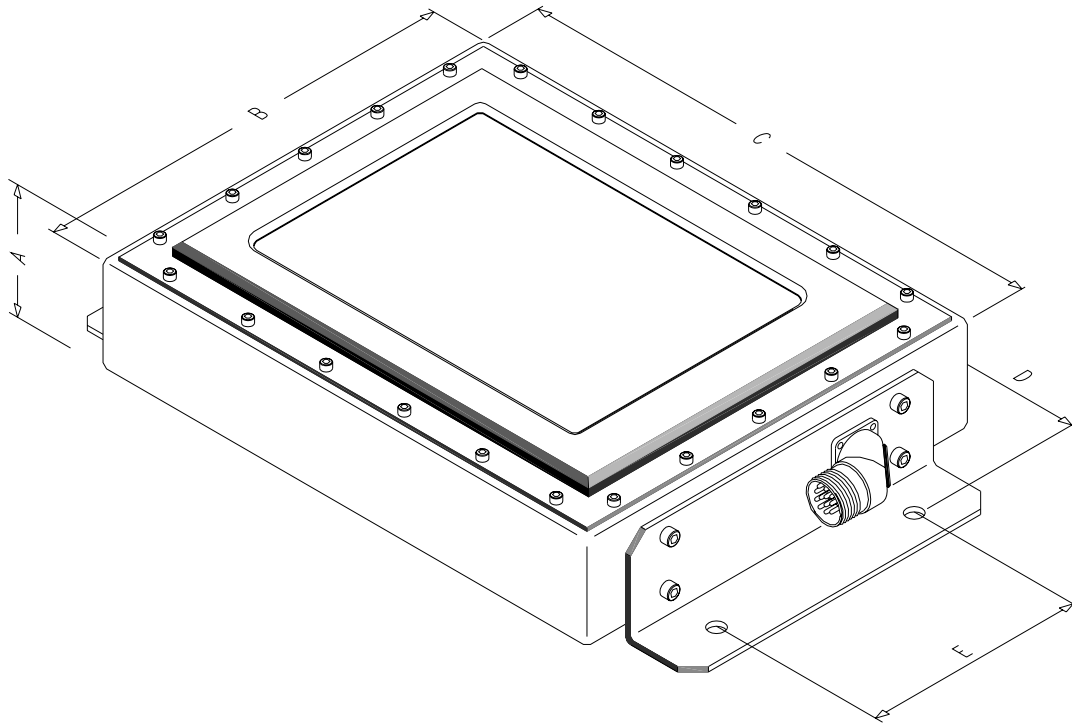

Connector Pictorial

Wiring Assignments

PIN	Connector X Contact Circon R 2.5 12Pin Male Description	Signal
X-1	Supply Input	110VAC Active
X-2	N/C	N/C
X-3	Supply Input	110VAC Neutral
X-4	RS-422 #1 RXD-	Communications
X-5	RS-422 #1 RXD+	Communications
X-6	RS-422 #1 TXD-	Communications
X-7	RS-422 #1 TXD+	Communications
X-8	Ethernet 10BaseT RXD+	Communications
X-9	Ethernet 10BaseT RXD-	Communications
X-10	Ethernet 10BaseT TXD+	Communications
X-11	Ethernet 10BaseT TXD-	Communications
X-12	N/C	N/C

Electrical Characteristics

Supply	90VAC – 260VAC
	50/60Hz
	20W

Communications	Ethernet 10BaseT
	RS-422 (115Kbs)

Environmental	IP67 (Water Immersion to 1metre)
	Minus 10°C to +65°C

Mechanical Characteristics

Dimension	Measurement	Description
A	70	Height
B	249	Depth
C	316	Width
D	360	Mounting Centre – Width
E	145	Mounting Centre – Depth

Notes
- All dimensions are in millimetres.

Material
- Enclosure is electros nickel plated mild steel.
- Bezel is electros nickel plated brass.
- Lense is Lexan.
- Mounting brackets are stainless steel.

Fasteners
- M5 x 10mm x 8
- M4 x 10mm x 22
- M3 x 10mm x 4

Mass
- 8.5kg (18.7lb)