

LSR118

2D barcode and NFC/RFID reader/writer

Sealed, rugged, water-resistant device for kiosks, gates, ticket vending machines

Description

The LSR118 is designed to read 2D barcodes from mobile phones, tablets and paper, and read and write to contactless smart cards, NFC labels and NFC-enabled mobile devices – from a single point of presentation.

The reader/writer has a small-footprint, slot-in design to enable fast, easy integration into public access kiosks, gates and ticket machines. Furthermore, its rugged, water-resistant construction, with no moving parts, enables it to withstand years of indoor and outdoor public access use.

2D barcodes

The LSR118 reader's unique design, with optimised imaging and a 2D omnidirectional barcode imager, ensures read reliability. It also ensures high-speed performance, capturing and decoding all popular linear, PDF417 and 2D symbologies, including QR and Aztec, in less than half a second of presentation in any orientation.

NFC/RFID

NFC offers an especially intuitive and quick interface for data reading and writing.

The LSR118 works with all popular contactless cards – including Mifare® (Classic®, Ultralight®), Octopus®, DESfire® and Calypso®



The LSR118 will read a 2D barcode or NFC tag on a smartphone or contactless smart cards.

Features

- Fully sealed, robust, water-resistant units suitable for integration into indoor or outdoor kiosks, podiums, gates and ticket machines
- Reads both 2D barcodes and NFC cards, labels and devices from one point of presentation
- Quick plug-in design reduces cost of kiosk integration
- Unique optimised focal distance design improves read performance for paper, PDA's, tablets and smartphones
- Intuitive operation with user feedback (green & red LED lights)
- Works equally well with printed barcodes
- Interfaces as USB composite or serial device, supporting both NFC and barcode readers.

Applications

- Travel and transportation mobile-ticket reading
- Car park ticketing; transportation and event turnstiles and gates
- Redeeming coupons and vouchers; reading loyalty cards.

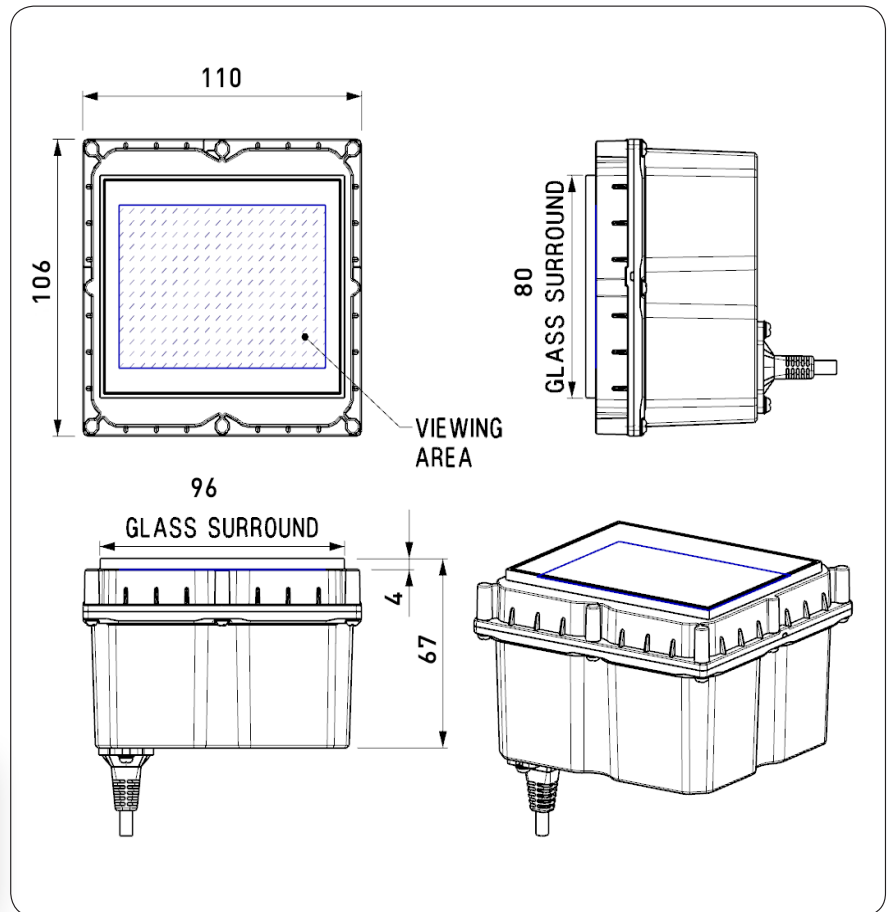


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NFC technology

NFC (Near Field Communication) is a standard form of communication between an NFC reader and NFC supported media like smartcards, tags and smart phones. NFC technology has gained more popularity as it is increasingly used in passports and mobile devices. The distance of communication is usually a few centimetres such that the users are aware of their contactless media communicating with the reader.



Specifications

2D symbologies read

Linear: EAN, UPC, Code 2 of 5, Interleaved 2 of 5, IATA 2 of 5, Code 39, Code 128

2D: IATA resolution 792, PDF417, Aztec, DataMatrix and QR codes

Media types: Will read: smartphone, tablet and smartwatch displays and paper documents and tickets.

Contactless reader

Supported media: ISO14443 type A and B cards (Java cards); max baud 424K (extendable to 848K)

Mifare UL, Classic 1K, Classic 4K, UL-C, UL-EV1, Mifare Plus; max baud 106K, mobile phone (PCE)

Operating frequency: 13.56 MHz

Operating distance: 20 mm

Interface

USB composite device, with:

- HID interface for barcode reading
- CCID PC/SC interface for NFC

Serial device, with barcode, NFC reader as separate devices

Mechanical/electrical

Dimensions:

67H x 106W x 110D mm

Weight: 250 g excluding cable

Power: Via external 5v power supply

Current: Peak: 650mA

Body: Black ABS

Glass: 4mm Toughened White Soda

Lime; BS EN60068-2-75 & IEC

62262:2002, rated to 3.5J impact

MTBF: 85,000 hours

Environmental

Temperature:

Operating -25°C to +50°C

Storage -30°C to +70°C

Humidity: 95% RH, non-condensing

Resilience:

Water-resistant to 1m depth

Dust-proof

EMC Approvals:

FCC Part 15 Subpart C

CE: EN 301 489-1 v1.8.1 (2008-04)

CE: EN 302 291-1 v1.1.1 (2005-07)

Safety:

IEC 62471: 2006

EN 60950-1:2006+A12:2011

Ingress:

IP67 certified to BS EN 60529:1992

All trademarks acknowledged. Specifications subject to change without prior notice. This literature is for outline information only.

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