OIS-L
Barcode Reader EVS128

The EVS 128 bar code reader has been specially developed for use in rough environment while long distance reading is required. The compact read head simplifies mounting in confined spaces.

The reader will read all common bar codes. It is based on solid state CCD-technology that can withstand the tough industrial environments of fork lift truck applications including the shock and vibration loading.

The EVS 128 read head does not contain any moving parts that may wear. It can withstand heat, cold, dust and water.

The CCD technology used in the EVS 128 provides extremely good reading capabilities. It can cope with badly printed or damaged codes as well as ink jet printed codes on porous surfaces.

The reader consists of a read head with an integrated lighting and a separate decoding unit.

For on-line radio communication with the data network, the decoding unit can be connected to a mobile terminal.

- Long reading distance
- Large depth of sharpness range
- Reads through sheeting
- Reads punched metal barcodes
- Reads barcodes of low printing quality

Operating data

Code types	2/5, Interleaved 2/5, CODE 39, CODE 128, EAN 8, EAN 13, EAN 128, UPC-A, UPC-E
Choice of code	Auto-discrimination between max. 4 same or different code types out of a maximum of 10 codes in line. Fixed or variable code length.
Exposure time	0.5 – 99 ms. An exposure time alternating between four values can be chosen.
Reading speed	The code symbol must be in the reading position for at least one exposure. Recommended are 3 exposures.
Reading distance	Depending on optics and code size. Typical examples for different read heads are: - RH128/35: 0.1 – 1.9 m - RH128/60: 0.4 – 3.3 m - RH128/100: 1.5 – 5.4 m Example: With a given barcode module size of 0.5 mm, the nominal reading distance is: - 400 mm (35 mm optics) - 740 mm (60 mm optics)
Reading width	- RH128/35: 0.96 × reading dist - RH128/60: 0.56 × reading dist - RH128/100: 0.34 × reading dist Approx. 1 m within the typical reading distances given above.

IDENTEC SOLUTIONS

IDENTEC SOLUTIONS is a leading global supplier of innovative RFID systems (Radio Frequency Identification) with communication ranges of up to 100 metres.

With its unique Intelligent Long Range® (ILR®) technology, IDENTEC SOLUTIONS offers innovative and economical solutions for automated data gathering, identification, tracking, and localization of objects.

The OIS product range offers automatic identification systems of different technologies, suitable for operation in the rough environment as in industry and logistics while providing high reliability. OIS transponders are equipped with up to 32 kBytes of memory and can withstand up to 235 °C.

To learn more about how ILR and OIS technology can increase the efficiency of your business, contact IDENTEC SOLUTIONS or visit our website at www.identecsolutions.com.

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Technical Data

Code symbol

Label	Up to 4 bar codes per label. Must be of different contents, types or lengths.
Contrast	According to code printing standard.
Dimension tolerance	According to code standards
Inverse code	A code made up of light bars and dark spaces is permitted. So reading of backlit punched metal codes is possible.

Electrical data

Supply voltage	9 – 32 VDC
Power consumption	5 W + intermittent 20 – 50 W for illumination
Digital inputs	12 and 24 V AC or DC, 15 mA, opto-isolated
Digital outputs	12 and 24 V DC, 60 mA resistive load, opto-isolated
Host interface	Opto-isolated RS 232C, RS 485 and 20 mA current loop, Protocols: event controlled or polled protocol. 3964(R), Comli-Master, Comli-Slave, Intermec, Programmable message format.
Service interface	RS 232C, Terminal

Mechanical data

Central unit	Size:	105 × 66 × 220 mm (w × h × d)
	Weight:	1 kg
Read heads incl. lamp unit		
EVS 128/35	Size:	73 × 97 × 83 mm (w × h × d)
	Weight:	680 g (with 35 mm lens)
EVS 128/60	Size:	73 ×97 ×111 mm (w × h × d)
	Weight:	800 g (with 60 mm lens)
EVS 128/100	Size:	73 × 97 × 165 mm (w × h × d)
	Weight:	960 g (with 100 mm lens)

Environmental conditions

Temperature range	Read head:	-30 … +40 °C (operation)
	Central unit:	0 … +40 °C (operation)
Protection class	Read head:	IP65
	Central unit:	IP40
Humidity	5 … 90 % RH. non-condensing	
Vibration (survival)	±0.35 mm, 10 – 60 Hz; 5 g, 60 – 2'000 Hz ±3 axes, 40 min/axis, As per IEC 68-2-6, Test Fc	
Shock (survival)	30 g, 8 ms, ±3 axes, As per IEC 68-2-27, Test Ea.	
EMC	Cable borne interference:	As per IEC 801-4, level 2
	Electrostatic discharges:	As per IEC 801-2, 15 kV
	RF interference:	As per IEC 801-3, 10 V/m
	Isolation:	1 kV, 10 MΩ

The OIS-BC system complies to the R &TTE-Guideline 99/5/EC*

All values are specified at 20 °C, unless otherwise noted.

* R & TTE — Radio and telecommunications terminal equipment