

PowerScan® LR & XLR

Data Sheet

Industrial Bar Code Scanners



Features:

- Operating range from 15 cm - 11 m / 6" - 36'
- Robust for tough industrial applications
- Flexible and extensive interface capabilities
- Integrated metal tether hook
- Programmable beeper tone, marker beam, and volume
- Variety of flexible mounting and storage accessories available

Mechanical

Dimensions
 Height: 6.9 cm / 2.7"
 Width: 11.2 cm / 4.4"
 Length: 18.3 cm / 7.2"
 Weight: 301 g / 10.6 oz. (no cable)

Environmental

Temperature Rating
 Operating: -30 to 50°C / -22°F to 122°F
 Storage: -40 to 70°C / -40° to 158°F
Humidity: 5 to 95% NC
Shock: Withstands multiple drops from 1.8 m / 6' to concrete
Vibration: Meets MIL-STD-810E
Water & Dust: IEC529 rating IP54

Optical

Light Source: Extra Bright 650nm Visible Laser Diode (VLD)
Scan System: Frictionless flexure mechanism
Rate: 37 scans/sec. nominal
Print Contrast Ratio: 25% minimum
Pitch: ±65°
Skew: ±55°

Ambient Light Capability

Artificial Light: 12,900 Lux / 1,200 foot candles
Sunlight: 86,100 Lux / 8,000 foot candles

Depth of Field: See Depth of Field Table below

Decoding Capability (autodiscriminates among)

- UPC/EAN/JAN
- Code 39
- Code 39 full ASCII
- Pharmacode 39
- Code 93
- MSI/Plessey
- Code 128
- Standard 2 of 5
- EAN 128
- Interleaved 2 of 5
- Codabar

Electrical

Operating Voltage: 4 VDC to 14 VDC
Operating Current – nominal
 Undecoded: 80mA @ 5 VDC
 Decoded: 95mA @ 5 VDC
Idling Current – low power mode: ~50µA @ 5 VDC

Communications

Undecoded:
 Configurable Options
Decoded:
 Multi-interface Modules (interchangeable, AutoSelect™ cable determines active interface): RS-232C, Standard Keyboard Wedge, Wand Emulation and USB/Universal Keyboard Wedge

Safety & Regulatory

Electrical: Complies to Gost R; TÜV; UL; cUL
Emissions: Complies to FCC-A; EN 55022-B BCIQ CNS13438; AS/NZS 3548; VCCI-B
Laser Classification: CDRH Class II (LR); CDRH Class IIIA (XLR);
 (CAUTION: Laser Light – Avoid direct eye exposure);
 IEC 60825 Class 2 (LR & XLR)
Restriction of Hazardous Substances: Complies to EU RoHS



Accessories



A: Universal Mount Kit C: Scan Stand
 B: Holster/Fork Lift Mount D: Take Up Reel

Depth of Field		
Label Density	Long Range (Decoded, Code 39)	Extra Long Range (Decoded, Code 39)
Paper Labels		
75 mil	20 to 33 cm / 8" to 13.0"	
10 mil	18 to 51 cm / 7" to 20.0"	
15 mil	18 to 81 cm / 7" to 32.0"	102 to 152 cm / 3.3' to 5.0'
20 mil	15 to 122 cm / 6" to 4.0'	71 to 183 cm / 2.3' to 6.0'
40 mil	23 to 213 cm / 9" to 7.0'	71 to 366 cm / 2.3' to 12.0'
55 mil	38 to 274 cm / 15' to 9.0'	102 to 457 cm / 3.3' to 15.0'
Reflective Labels		
40 mil	56 to 254 cm / 20" to 8.4'	102 to 457 cm / 3.3' to 15.0'
70 mil	101 to 457 cm / 40" to 15.0'	203 to 762 cm / 6.7' to 25.0'
100 mil	116 to 671 cm / 40" to 22.0'	203 to 1097 cm / 6.7' to 36.0'

Printing resolution, contrast and ambient light dependent



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