Corded 1-D and 2-D Handheld Reader for Zone 2/22

IDM-Z2-x60-D-*

- Approved for Zone 2 and 22 (ATEX and IECEx)
- All 1-D standard barcode families supported
- 2-D model supports Data Matrix, QR, and other two-dimensional codes
- Fall tested from 2 m to ensure reliability

Corded 1-D and 2-D Handheld Reader for Zone 2/22

Function

IDM-Z2-x60-D-* corded handheld readers scan 1-D and 2-D codes in Zone 2/22 hazardous locations or safe areas.
1-D models read all common one-dimensional barcode types, with an option available to read stacked codes. The 2-D model reads one-dimensional barcodes and stacked codes, as well as two-dimensional codes such as Data Matrix and QR codes.

Technical Data

General specifications	
Type	scan frequency: 500 Hz (1-D models), 60 Hz (2-D model)
Light type	LED, visible red light (630 / 1310 nm) ambient light immunity 100 000 lx
Readable codes	barcode types: Code 39, Code 39 Trioptic, Code 32, Code 93, Code 11, Codabar, Code 128, GS1-128 / EAN 128, UPC / EAN / JAN (with addition), MSI/Plessey, UK/Plessey, IATA, Interleaved 2 of 5, Standard and Industrial 2 of 5, Matrix 2 of 5, Telepen, GS1 DataBar, Australian Post, China Post, German Post, US Planet, US Postnet, British Post, Intelligent Mail, Japan Post, Korean Post, Dutch KIX Post stacked code types (depending on model selected): PDF417, MicroPDF417, Code 49, Code 16K, Composite, Codablock F 2-D code types (depending on model selected): Data Matrix, QR, MicroQR, Aztec, Maxicode
Read distance	20 ... 850 mm (1-D model) 30 ... 380 mm (2-D model)
Resolution	ca. ≥ 0.76 mm (1-D models) ca. ≥ 0.13 mm (2-D model)

Indicators/operating means	
Indicators	2 x LED (operating state) beeper/buzzer (can be switched off)

Interface	
Interface type	RS-232 TTL, RS-422, and USB

Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61000-6-2:2005 + AC:2005 , EN 61000-6-4:2007 + A1:2011
Explosion protection	
Directive 2014/34/EU	EN 60079-0:2018 EN 60079-11:2012
RoHS	
Directive 2011/65/EU (RoHS)	EN 50581:2012

Conformity	
Supplementary standard conformity	EN 60950-1:2006+A1:2010+A2:2013+A11:2009+A12:2011

Ambient conditions	
Operating temperature	-20 ... 50 °C (-4 ... 122 °F)

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Technical Data

Storage temperature	-30 ... 70 °C (-22 ... 158 °F)
Relative humidity	95 % non-condensing
Impact resistance	50 fall tests from 2 m height onto concrete
Mechanical specifications	
Degree of protection	IP65
Mass	approx. 200 g without cable
Dimensions	104 mm x 185 mm x 76 mm
Data for application in connection with hazardous areas	
EU-type examination certificate	IBExU19ATEXB016X IECEx IBE 19.0026X
Marking	1-D model: Ⓔ II 3GEx ic IIC T4 Gc Ⓔ II 3D Ex ic IIIC T135°C Dc 2-D model: Ⓔ II 3G Ex ic IIB T4 Gc Ⓔ II 3D Ex ic IIIC T135°C Dc
General information	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.

Accessories

	SCANNER-HOLDER-U1-XX00-N0	Stainless steel holder for for IDM-Z1- handheld readers, compatible with AG-XX00 housing
	SCANNER-HOLDER-U1-AG1-N0	Stainless steel holder for for IDM-Z1- handheld readers, compatible with AG1 housing
	SCANNER-HOLDER-U1-3200-N0	Stainless steel holder for IDMx6x handheld readers and Ident-Ex® 01, compatible with AG-3200 housing
	CBL-IDMx60-D-J1-S-C38-N0	Connection cable for IDM-Z1-x6x-D-* corded Handheld Readers
	CBL-IDMx60-D-J1-S-S18-N0	Connection cable for IDM-Zx-x6x-D-* corded Handheld Readers
	CBL-IDM160-D-J1-U-C38-N0	Connection cable for IDM-Zx-x6x-D-* corded Handheld Readers
	CBL-IDM160-D-J1-U-S18-N0	Connection cable for IDM-Z1-x6x-D-* corded Handheld Readers
	DATL-IDM-DB-S-XX00-N0	1 m connector cable for corded handheld reader with M12 connector to open cable end
	SK-IDM-Z2-J2-1M-U-N	Cable barrier for corded IDM-Z2-* handheld readers and base station
	SK-IDM-Z2-J2-5M-S-N	Cable barrier for corded IDM-Z2-* handheld readers and base station

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Product Versions

Model number	Description
IDM-Z2-160-D-1D-*2-SU-N-N0	Corded, 1-D code reader Ex-protection: ATEX & IECEx Zone 2/22 Protocol: USB/Serial (depends on connection cable) NOTE: Connection cable not included. Please order separately!
IDM-Z2-160-D-1D-*2-SU-P-N0	Corded, 1-D code reader Ex-protection: ATEX & IECEx Zone 2/22 Protocol: USB/Serial (depends on connection cable) Supports PDF417 Barcode NOTE: Connection cable not included. Please order separately!
IDM-Z2-260-D-2D-*2-S1-N-N0	Corded, 2-D code reader Ex-protection: ATEX & IECEx Zone 2/22 Protocol: USB/Serial (depends on connection cable) NOTE: Connection cable not included. Please order separately!

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