



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

## IDM-Z2-x64-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-x64-D-\* corded handheld readers scan 1-D and 2-D codes in Zone 2/22 explosion-hazardous areas or non-hazardous areas. They are optimized for use with Pepperl+Fuchs VisuNet HMI components. 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 codes 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	approx. ≥ 0.76 mm (1-D models) approx. ≥ 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)

Release date: 2023-10-19 Date of issue: 2023-10-19 Filename: t210087\_eng.pdf

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	
<b>Mechanical specifications</b>		
Degree of protection	IP65	
Mass	approx. 200 g without cable	
Dimensions	104 mm x 185 mm x 76 mm	
<b>Data for application in connection with hazardous areas</b>		
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	
<b>General information</b>		
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .	

## Accessories

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

## Product Versions

Model No.	Description
IDM-Z2-164-D-1D-J2-SU-P-N0	Corded, 1-D code reader Explosion protection: ATEX & IECEx Zone 2/22 Protocol: USB/Serial (depends on connection cable) Supports PDF417 barcode <b>NOTE:</b> Connection cable not included. Order separately!
IDM-Z2-264-D-2D-J2-S1-N-N0	Corded, 2-D code reader Explosion protection: ATEX & IECEx Zone 2/22 Protocol: USB/Serial (depends on connection cable) <b>NOTE:</b> Connection cable not included. Order separately!

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