

Corded 1-D and 2-D Handheld Reader for Zone 1/21

IDM-Z1-x60-D-*

- Approved for Zone 1 and 21 (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 1/21





Function

IDM-Z1-x60-D-* corded handheld readers scan 1-D and 2-D codes in Zone 1/21 hazardous locations or safe 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 and QR codes.
SK-IDM-Z1-*... supply modules enable stand-alone applications and data communication with the host PC or PLC in the safe area via RS-232/RS-422 or USB communication.

A variety of cables are available as accessories for connectivity to VisuNet HMI components.

Technical Data

General specifications

denotal operations	
Туре	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) 30 400 mm (2-D model)
Resolution	ca. \geq 0.76 mm (1-D models) ca. \geq 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, 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
Low voltage	EN 60950-1:2006+A1:2010+A2:2013+A11:2009+A12:2011
RoHS	
Directive 2011/65/EU (RoHS)	EN 50581:2012
Ambient conditions	
Operating temperature	-20 50 °C (-4 122 °F)

-30 ... 70 °C (-22 ... 158 °F) (1-D model) -40 ... 70 °C (-40 ... 158 °F) (2-D model)

50 fall tests from 2 m height onto concrete

95 % non-condensing

approx. 200 g without cable

104 mm x 185 mm x 76 mm

IP65

Technical Data

Storage temperature

Relative humidity

Impact resistance

Mass

Dimensions

Mechanical specifications Degree of protection

Ordering information

Model number	Description
IDM-Z1-160-D-1D-J1-SU-N-N0	Corded, 1-D code reader
	Ex-protection: ATEX&IECEx Zone 1/21
	Protocol: USB/Serial (depends on connection cable)
	NOTE: Connection cable not included.
	Please order separately!
IDM-Z1-160-D-1D-J1-SU-P-N0	Corded, 1-D code reader
	Ex-protection: ATEX&IECEx Zone 1/21
	Protocol: USB/Serial (depends on connection cable)
	Supports PDF417 Barcode
	NOTE: Connection cable not included.
	Please order separately!
IDM-Z1-260-D-2D-J1-S1-N-N0	Corded, 2-D code reader
	Ex-protection: ATEX&IECEx Zone 1/21
	Protocol: USB/Serial (depends on connection cable)
	NOTE: Connection cable not included.
	Please order separately!