

IDM164-Z1 Art. No. 310742



- Certified acc. to ATEX and IECEx for hazardous zones 1, 2, 21, 22
- Wired or wireless Bluetooth scanners
- 1D / 2D barcodes, stacked codes
- Scanner compatible with R. STAHL's SHARK, MANTA, EAGLE and RAPTOR HMI device platforms

MY R. STAHL IDMEXA



R. STAHL's IDM barcode scanners are ATEX and IECEx certified for hazardous zones 1, 2, 21 and 22.

Depending on the scanner, all common 1D / 2D barcodes and stacked codes can be read. The reading process is confirmed acoustically with a beep, visually with LED and with vibration. The explosion-protected HMI devices are all-round designed to meet industrial requirements: their compact enclosure with IP65 is extremely robust - it can withstand up to 50 drops onto concrete from a height of 2 m.

The wired scanners support all common cable interfaces, and, when required, the cables can be replaced without the need for any tools. The wireless Bluetooth scanners transmit all data via Bluetooth.

Technical Data

General

Special version	wired handheld scanner
Version	Linear imager scanner
Barcode types	one-dimensional 1D (barcode and stacked code)
WebCode	IDMEXA

Explosion Protection

Ex version	Yes
Application range (zones)	1 & 2, 21 & 22
Scope	EU (CE / ATEX) International (IECEx)
IECEx gas explosion protection	Ex ib IIC T4 Gb
IECEx dust explosion protection	Ex ib IIIC T135°C Db
ATEX gas explosion protection	II 2 G Ex ib IIC T4 Gb
ATEX dust explosion protection	II 2 D Ex ib IIIC T135°C Db

Electrical Data

DC rated operational voltage	4.9 V
Interfaces	Interface support (via supply module): RS-232 / RS-422 / USB
Light source	Visible red light, 630nm
Scan frequency	500 Hz
Reader distance	20 ... 850 mm
Code resolution	ca. $\geq 0,076$ mm (depending on code)
Resistance to light interference	100 000 lx

IDM164-Z1 Art. No. 310742

Electrical Data

Status LED	Optical: 2x LED (operating status / read confirmation) Acoustic: Beeper / buzzer (can be switched off) Vibration
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Auxiliary Power

Power supply	Via supply module
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Ambient Conditions

Ambient temperature °C	-20°C ... +50°C
Storage temperature °C	-30°C ... +70°C
Relative humidity	±95 % , non-condensing
Shock resistance	50 drops from a height of 2 m onto a concrete surface

Mechanical Data

Front enclosure protection type (IP)	IP65
Rear enclosure protection type (IP)	IP65
Enclosure material	Plastic
Connection cable	for VM125-ex-RS232-* VB-IDMx60-RS232-1.8m for VM125-ex-USB-* VB-IDMx60-USB-1.8m
Width	104 mm
Height	185 mm
Depth	76 mm
Dimensions (WxHxD)	104 mm x 185 mm x 76 mm
Weight	0.44 lb

Accessories

Adapter Cable		Art. No.
	VB-IDMx6x-SOCKET-RS232-0.5m Adapter cable for IDMx6x scanner, display xx8 <--> IDMx6x connection cable, open ends to binder coupling for interface RSi-232 (xx8), cable length: 0.5 m straight	254452

Base stations scanner		Art. No.
	IDMx61-Base-A Base station for handheld scanner IDMx61-BT, no Bluetooth, Non-Ex, wireless loading station, loading in safe area	275761
	IDMx64-Base-A Base station for handheld scanner IDMx64-BT, Bluetooth, Non-Ex, wireless loading station, loading in safe area	310747
	IDMx64-BT-Base-Z1 Base station for handheld scanner IDMx64-BT, Bluetooth, Zone 1, wireless access and loading station, loading in Zone 1	310746

Battery		Art. No.
	IDMx6x-BT-ex-LionX Replacement battery (Li ions) for IDMx6x-BT-ex	283128

IDM164-Z1 Art. No. 310742

Connection Cable	Art. No.
VB-IDM160-RS232-SR-1.8m Connection cable for IDM160, connection to ReaderBox or SHARK xx8-RSi, interface RS-232, Ex i 5.6 V cable length 1.8 m, straight, Binder plug	224085
VB-IDM160-RS232-SR-3.6m Connection cable for IDM160, connection to ReaderBox or SHARK xx8-RSi, interface RS-232, Ex i 5.6 V cable length 3.6 m, coiled, Binder plug	224086
VB-IDMx60-RS232-1.8m Connection cable for IDM160 / IDM260, connection to VM125-ex-*, interface RS-232, Ex i 5.6 V, cable length 1.8 m, straight, Binder plug	224081
VB-IDMx60-RS232-3.6m Connection cable for IDM160 / IDM260, connection to VM125-ex-*, interface RS-232, Ex i 5.6 V, cable length 3.6 m, coiled, Binder plug	224082
VB-IDMx60-USB-1.8m Connection cable for IDM160, connection to VM125-ex-*, interface USB, Ex i 5.6 V, cable length 1.8 m, straight, Binder plug	224083
VB-IDMx60-USB-3.6m Connection cable for IDM160, connection to VM125-ex-*, interface USB, Ex i 5.6 V, cable length 3.6 m, coiled, Binder plug	224084
VB-IDMx6x-Base-RS232-SR-1.8m-Z1 Connection cable for base loading station IDM*-Z1, connection to ReaderBox or SHARK xx8-RSi, interface RS-232, Ex i 5.6 V, cable length 1.8 m, straight, Binder plug	224102
VB-IDMx6x-Base-RS232-SR-3.6m-Z1 Connection cable for base loading station IDM*-Z1, connection to ReaderBox or SHARK xx8-RSi, interface RS-232, Ex i 5.6 V, cable length 3.6 m, coiled, Binder plug	224103
VB-IDMx6x-Base-VM-RS232-1.8m-Z1 Connection cable for base loading station IDM*-Z1, connection to VM125-ex-*, interface RS-232, Ex i 5.6 V, cable length 1.8 m, straight, Binder plug	224100
VB-IDMx6x-Base-VM-RS232-3.6m-Z1 Connection cable for base loading station IDM*-Z1, connection to VM125-ex-*, interface RS-232, Ex i 5.6 V, cable length 3.6 m, coiled, Binder plug	224101
VB-IDMx6x-Base-VM-USB-1.8m-Z1 Connection cable for base loading station IDM*-Z1, connection to VM125-ex-*, interface USB, Ex i 5.6 V, cable length 1.8 m, straight, Binder plug	224104
VB-IDMx6x-Base-VM-USB-3.6m-Z1 Connection cable for base loading station IDM*-Z1, connection to VM125-ex-*, interface USB, Ex i 5.6 V, cable length 3.6 m, coiled, Binder plug	224105

IDM164-Z1 Art. No. 310742

Connection Cable Extension		Art. No.
	VB-IDMx6x-EXT-3.0m-Z1 Extension cable for IDMx6x zone 1, cable length 3 m, straight	265948
	VB-IDMx6x-EXT-3.0m-Z1-spiral Extension cable for IDMx6x zone 1, cable length 3 m, coiled	263908
	VB-IDMx6x-EXT-6m-Z1 Extension cable for IDMx6x zone 1, cable length: 6 m, straight	224108
	VB-IDMx6x-EXT-6.0m-Z1-spiral Extension cable for IDMx6x zone 1, cable length 6 m, coiled	265949
Power supply		Art. No.
	DSP-IDMx6x-DC5V Power supply for non-ex base loading station	224095

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