



- 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

WebCode 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.

For industrial applications (Non-Ex) various types of industrial barcode scanners are available. In this case please contact R. STAHL HMI Systems GmbH.

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table					
Bluetooth wireless scanner					
Product Type	Version	Barcode types	Base loading station	Art. No.	Weight kg
IDM161-BT-ex	Linear imager scanner	one-dimensional 1D (barcode)	IDMx61-BT-Base-Z1 IDMx61-BT-Base IDMx61-Base	249910	0.260
IDM161-BT-PDF-ex	Linear imager scanner	one-dimensional 1D (barcode and stacked code) (PDF417)	IDMx61-BT-Base-Z1 IDMx61-BT-Base IDMx61-Base	249941	0.260
wired handheld scanner					
Product Type	Version	Barcode types	Base loading station	Art. No.	Weight kg
IDM160-ex-b	Linear imager scanner	one-dimensional 1D (barcode)	-	249908	0.200
IDM160-PDF-ex-b	Linear imager scanner	one-dimensional 1D (barcode and stacked code) (PDF417)	-	249909	0.200

Technical Data	
Explosion Protection	
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

Technical Data	
Explosion Protection	
Certifications	ATEX, IECEx
Electrical Data	
Light source	Visible red light, 630nm
Scan frequency	500 Hz
Reader distance	20 ... 850 mm
Code resolution	approx. ≥ 0.076 mm (depending on code)
Interfaces	Interface support (via supply module): RS-232 / RS-422 / USB
Status LED	optical: 2x LED (operating status / read confirmation) acoustic: beeper / buzzer (can be switched off) vibration
Ambient Conditions	
Ambient temperature operation	-20 °C ... +50 °C
Shock resistance	50 drops from a height of 2 m onto a concrete surface
Mechanical Data	
Dimensions (WxHxD)	104 mm x 185 mm x 76 mm
Ingress protection	IP65
Weight	0.2 kg

The Technical Data only apply to the IDMx6x scanner versions. All data for the IDM26x scanner versions and the supplementary data for the wireless scanners can be found online at r-stahl.com or in the data sheets.

Accessories			
Figure	Description	Art. No.	Weight kg
Adapter Cable	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	0.200

Accessories			
Figure	Description	Art. No.	Weight kg
Connection Cable			
	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	0.200
	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	0.300
	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	0.200
	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	0.300
	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	0.200
	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	0.300
	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	0.200
	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	0.300
	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	0.200
	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	0.300
	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	0.200
	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	0.300
Connection Cable Extension			
	VB-IDMx6x-EXT-6m-Z1 Extension cable for IDMx6x zone 1, cable length: 6 m, straight	224108	0.500
Power supply			
	DSP-IDMx6x-DC5V Power supply for non-ex base loading station	224095	-
Tripod			
	IDMx6x-tripod Tripod for IDMx6x, material: ABS (acrylonitrile-butadiene-styrene)	224106	-