

IDM164-BT-Z1 Art. No. 310743



- 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                 | Bluetooth wireless scanner                    |
| Version                         | Linear imager scanner                         |
| Barcode types                   | one-dimensional 1D (barcode and stacked code) |
| Base loading station            | IDMx64-BT-Base-Z1<br>IDMx64-BT-Base (Non-Ex)  |
| WebCode                         | IDMEXA  |
| Explosion Protection            |   |
| Ex version                      | Yes   |
| Application range (zones)       | 1, 2, 21, 22                                  |
| Scope                           | EU (CE / ATEX)<br>International (IECEx)       |
| IECEx gas certificate           | IBExU16ATEX1002                               |
| ATEX gas certificate            | IECEx IBE 16.0002                             |
| 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                 |   |
| Rated operational voltage DC    | 3.6 V   |
| Power consumption DC            | 330 mA (stand-by 80 / 130 mA; peak 500 mA)    |
| Bluetooth                       | Yes   |
| Light source                    | Visible red light, 630nm                      |

IDM164-BT-Z1 Art. No. 310743

### Electrical Data

|                                  |  |
|----------------------------------|--|
| Scan frequency                   | 60 Hz  |
| Reader distance                  | 30 ... 380 mm  |
| Code resolution                  | approx. $\geq 0.13$ mm (depending on code)   |
| Resistance to light interference | 100 000 lx   |
| Status LED                       | optical: 2x LED (operating status / read confirmation)<br>acoustic: beeper / buzzer (can be switched off)<br>vibration |

### Auxiliary Power

|              |             |
|--------------|-------------|
| Power supply | Via battery |
|--------------|-------------|

### Ambient Conditions

|                     |   |
|---------------------|---|
| Ambient temperature | -20°C ... +50°C                                       |
| Storage temperature | -30°C ... +70°C                                       |
| Relative humidity   | $\pm 95$ % , 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                 |
| Width                                | 104 mm                  |
| Height                               | 185 mm                  |
| Depth                                | 76 mm                   |
| Dimensions (WxHxD)                   | 104 mm x 185 mm x 76 mm |
| Weight                               | 260 g                   |
| Weight                               | 0.57 lb                 |

## Accessories

| Adapter Cable  | Art. No. |
|--|----------|
| <b>VB-IDMx6x-SOCKET-RS232-0.5m</b><br>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. |
|---|----------|
| <b>IDMx61-Base-A</b><br>Base station for handheld scanner IDMx61-BT, no Bluetooth, Non-Ex, wireless loading station, loading in safe area | 275761   |
|   | 310747   |
|   | 310746   |

| Battery   | Art. No. |
|---|----------|
| <b>IDMx6x-BT-ex-LionX</b><br>Replacement battery (Li ions) for IDMx6x-BT-ex | 283128   |

IDM164-BT-Z1 Art. No. 310743

| Connection Cable   | Art. No. |
|--|----------|
| <b>VB-IDM160-RS232-SR-1.8m</b><br>Connection cable for IDM160, connection to ReaderBox or SHARK xx8-RSi, interface RS-232, Ex i 5.6 V<br>cable length 1.8 m, straight, Binder plug                             | 224085   |
| <b>VB-IDM160-RS232-SR-3.6m</b><br>Connection cable for IDM160, connection to ReaderBox or SHARK xx8-RSi, interface RS-232, Ex i 5.6 V<br>cable length 3.6 m, coiled, Binder plug                               | 224086   |
| <b>VB-IDMx60-RS232-1.8m</b><br>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   |
| <b>VB-IDMx60-RS232-3.6m</b><br>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   |
| <b>VB-IDMx60-USB-1.8m</b><br>Connection cable for IDM160, connection to VM125-ex-*, interface USB, Ex i 5.6 V, cable length 1.8 m, straight, Binder plug   | 224083   |
| <b>VB-IDMx60-USB-3.6m</b><br>Connection cable for IDM160, connection to VM125-ex-*, interface USB, Ex i 5.6 V, cable length 3.6 m, coiled, Binder plug   | 224084   |
| <b>VB-IDMx6x-Base-RS232-SR-1.8m-Z1</b><br>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   |
| <b>VB-IDMx6x-Base-RS232-SR-3.6m-Z1</b><br>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   |
| <b>VB-IDMx6x-Base-VM-RS232-1.8m-Z1</b><br>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   |
| <b>VB-IDMx6x-Base-VM-RS232-3.6m-Z1</b><br>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   |
| <b>VB-IDMx6x-Base-VM-USB-1.8m-Z1</b><br>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   |
| <b>VB-IDMx6x-Base-VM-USB-3.6m-Z1</b><br>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-BT-Z1 Art. No. 310743

| <b>Connection Cable Extension</b> |  | <b>Art. No.</b> |
|-----------------------------------|--|-----------------|
|                                   | <b>VB-IDMx6x-EXT-3.0m-Z1</b><br>Extension cable for IDMx6x zone 1, cable length 3 m, straight      | 265948          |
|                                   | <b>VB-IDMx6x-EXT-3.0m-Z1-spiral</b><br>Extension cable for IDMx6x zone 1, cable length 3 m, coiled | 263908          |
|                                   | <b>VB-IDMx6x-EXT-6m-Z1</b><br>Extension cable for IDMx6x zone 1, cable length: 6 m, straight       | 224108          |
|                                   | <b>VB-IDMx6x-EXT-6.0m-Z1-spiral</b><br>Extension cable for IDMx6x zone 1, cable length 6 m, coiled | 265949          |
| <b>Power supply</b>               |  | <b>Art. No.</b> |
|                                   | <b>DSP-IDMx6x-DC5V</b><br>Power supply for non-ex base loading station                             | 224095          |
| <b>Tripod</b>                     |  | <b>Art. No.</b> |
|                                   | <b>IDMx6x-tripod</b><br>Tripod for IDMx6x, material: ABS (acrylonitrile-butadiene-styrene)         | 224106          |

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