

**IDM-Z2-164-D-1D-J2-SU-P-N0**  
**IDM-Z2-264-D-2D-J2-S1-N-N0**

**Wired handheld scanner for  
use in explosion-hazardous  
areas Zone 2/22**

**Manual**



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With regard to the supply of products, the current issue of the following document is applicable:  
The General Terms of Delivery for Products and Services of the Electrical Industry, published  
by the Central Association of the Electrical Industry (Zentralverband Elektrotechnik und Elek-  
troindustrie (ZVEI) e.V.) in its most recent version as well as the supplementary clause:  
"Expanded reservation of proprietorship"

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# 1 History of the Manual

Version	Comments
12/2022	First edition for scanner generation x64

## 2 Introduction

### 2.1 Content of this Document

This document contains information required to use the product in the relevant phases of the product life cycle. This may include information on the following:

- Product identification
- Delivery, transport, and storage
- Mounting and installation
- Commissioning and operation
- Maintenance and repair
- Troubleshooting
- Dismounting
- Disposal



#### Note

For full information on the product, refer to the further documentation on the Internet at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com).

The documentation comprises the following parts:

- This document
- Datasheet

In addition, the documentation may comprise the following parts, if applicable:

- Type examination certificate
- EU declaration of conformity
- Attestation of conformity
- Certificates
- Control drawings
- Instruction manual
- Other documents

### 2.2 Manufacturer

Pepperl+Fuchs Group Lilienthalstraße 200, 68307 Mannheim, Germany
--

Internet: <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a>
--

### 2.3 Target Group, Personnel

Responsibility for planning, assembly, commissioning, operation, maintenance, and dismantling lies with the plant operator.

Only appropriately trained and qualified personnel may carry out mounting, installation, commissioning, operation, maintenance, and dismantling of the product. The personnel must have read and understood the instruction manual and the further documentation.

Prior to using the product make yourself familiar with it. Read the document carefully.

### 2.4 Symbols Used

This document contains symbols for the identification of warning messages and of informative messages.

## Warning Messages

You will find warning messages, whenever dangers may arise from your actions. It is mandatory that you observe these warning messages for your personal safety and in order to avoid property damage.

Depending on the risk level, the warning messages are displayed in descending order as follows:



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### Danger!

This symbol indicates an imminent danger.

Non-observance will result in personal injury or death.

---



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### Warning!

This symbol indicates a possible fault or danger.

Non-observance may cause personal injury or serious property damage.

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### Caution!

This symbol indicates a possible fault.

Non-observance could interrupt the device and any connected systems and plants, or result in their complete failure.

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## Informative Symbols



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### Note

This symbol brings important information to your attention.

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### Action

1. This symbol indicates a paragraph with instructions. You are prompted to perform an action or a sequence of actions.

### 3 Technical Specifications

#### 3.1 Explosion Protection



#### **IDM-Z2-164-D-1D-J2-SU-P-N0**

⊕ Ex II 3G Ex ic IIC T4 Gc

⊕ Ex II 3D Ex ic IIIC T135°C Dc

#### **IDM-Z2-264-D-2D-J2-S1-N-N0**

⊕ Ex II 3G Ex ic IIB T4 Gc

⊕ Ex II 3D Ex ic IIIC T135 °C DC

#### **Test certificate**

IBExU19ATEXB016X

IECEX IBE 19.0026X

## Manufacturer

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## 3.2 Technical Data

	IDM-Z2-164-D-1D-J2-SU-P-N0	IDM-Z2-264-D-2D-J2-S1-N-N0
Description	Linear imager	2-D imager
Barcode	One-dimensional 1-D (Barcode and stack code incl. PDF417)	One-dimensional 1-D & 2-D (Barcode and stack code incl. PDF417)
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	
Stack codes	PDF417, MicroPDF417, Code 49, Code 16K, Composite, Codablock F	
2-D code types	Data Matrix, QR code, MicroQR-Code, Aztec, MaxiCode	
Light source	LED, visible red light, 630 nm	
Scan frequency	500 Hz	60 Hz
Reading distance	50 mm to 800 mm	35 mm to 90 mm
Code resolution (code-dependent)	Approx. $\geq 0.076$ mm	Approx. $\geq 0.13$ mm
Immunity to extraneous light	100.000 lx	
<b>Electrical data</b>		
Interfaces	RS-232 / RS-422 / USB	RS-232 / USB
<b>Feedback</b>		
Visual	2x LED (operating state/read confirmation)	
Acoustic	Beeper / buzzer (can be switched off)	
<b>Ambient conditions</b>		
Shock resistance	50 drop tests on concrete from a height of 2 m	
Operating temperature	-20°C to +50°C	
Storage temperature	-30°C to +70°C	
Relative humidity	95% non-condensing	
<b>Mechanical data</b>		
Degree of protection	IP65	
Dimensions [W x H x D]	104 mm x 185 mm x 76 mm	
Weight	Approx. 220 g without connection cable	

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### 3.3

#### Use

The handheld reader is a piece of handheld device.

It enables portable recording and direct data transfer in explosion-hazardous areas. The device is modified for use in explosion-hazardous areas of Zone 2 and Zone 22.

## 4 System Structure

### 4.1 Overview

The wired handheld scanners and their accessories are presented in the following overview. The handheld scanners can be used in stand-alone applications or can be connected to a Pepperl+Fuchs VisuNet operator workstation. Connections to the VisuNet FLX are realized with an additional barrier (SK-IDM-Z2-J2-1M-U-N) or via an integrated barrier when connecting the barcode scanner to the VisuNet GXP. The data can be transferred via the network interface of the VisuNet operator workstation to a host PC in the non-explosion-hazardous area.

Alternatively, the handheld scanners can be connected to a PC or a programmable logic controller (PLC) with the associated power module and operated as "standalone" units.



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**Warning!**

Wired handheld scanners may only be operated with the specified Pepperl+Fuchs connection cables!

Handheld scanners may only be operated on the specified Pepperl+Fuchs supply modules/barriers!

The warning messages in this instruction manual and the SICK AG manual ([www.SICK.com](http://www.SICK.com)) must be observed!

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In the following two subchapters, the typical usage cases are described in more detail.

## 4.2 IDM-Z2-x64-D-\*

### 4.2.1 System Structure 1

**Overview of the complete system structure 1:** Wired handheld barcode scanner IDM-Z2-x64-D-\* connected via serial communication protocol to the supply cable and a host PC in the non-explosion-hazardous area.

#### Corded Barcode Scanner, serial connection to Host PC (stand-alone)

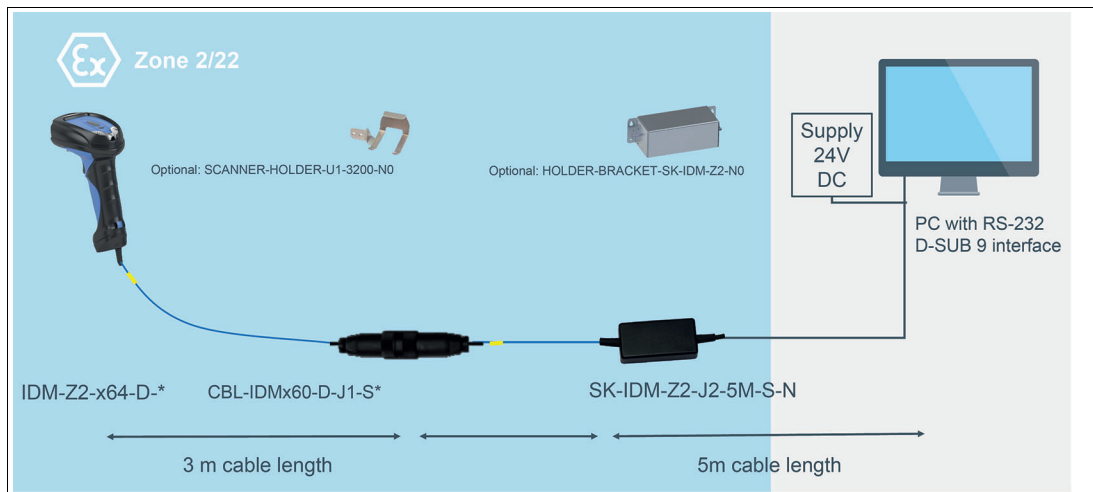


Figure 4.1

#### Optional Accessories:

Item Number	Product Name	Description	Photo
#548268	SCANNER-HOLDE- RU1-AG1-N0	Compatible with AG1 Housing and Holder-Bracket Material: Stainless steel AISI 304 (1,4301) Compatible with IDMx6x, ecom Ident-Ex® 01 Prepared for mounting to right side of housing	
#70142693	HOLDER-BRACKET- SK-IDM-Z2-N0	Bracket to wall-mount SK-IDM-Z2-J2-* barrier - Material: Stainless steel AISI 304 (1,4301) - NOTE: Barrier not included!	



#### Note

The Supply cable is available for RS-232 and USB, make sure to use the compatible RS-232 supply (SK-IDM-Z2-J2-5M-S-N) - and connection cables (CBL-IDMx60-D-J1-S \*).

#### Description:

The handheld barcode scanner is designed to be used in explosion-hazardous areas Zone 2/22. For proper operation in explosion-hazardous areas, the permissible RS-232 cordsets CBL-IDMx60-D-J1-S\* must be used. The intrinsically safe power supply and data transfer are realized via this cable. The connection in this structure uses the supply cable SK-IDM-Z2-J2-5M-S-N which is connected to the communication interface.

The RS-232 interface of the host PC is located in the non-explosion-hazardous area. Data communication is via the RS-232 interface, while the handheld barcode scanner is powered by the additional power supply. The power is transferred within the supply cable SK-IDM-Z2-J2-5M-S-N into intrinsically safe power.



**Note**

With the USB-interface version, the maximum total cable length of the supply cable SK-IDM-Z2-J2-1M-U-N is 1 meter. Use the compatible USB cables CBL-IDMx60-D-J1-U\*.

**4.2.2 System Structure 2**

**Overview of the complete system structure 2:** Wired handheld barcode scanner IDM-Z2-x64-D-\* connected via serial communication protocol to the supply cable and a host PC in the non-explosion-hazardous area with optional GR.TJE.13.13.09.B-S0008 connection box for long communication distances.

**Corded Barcode Scanner, serial connection to Host PC with optional EPE connection box (stand-alone)**

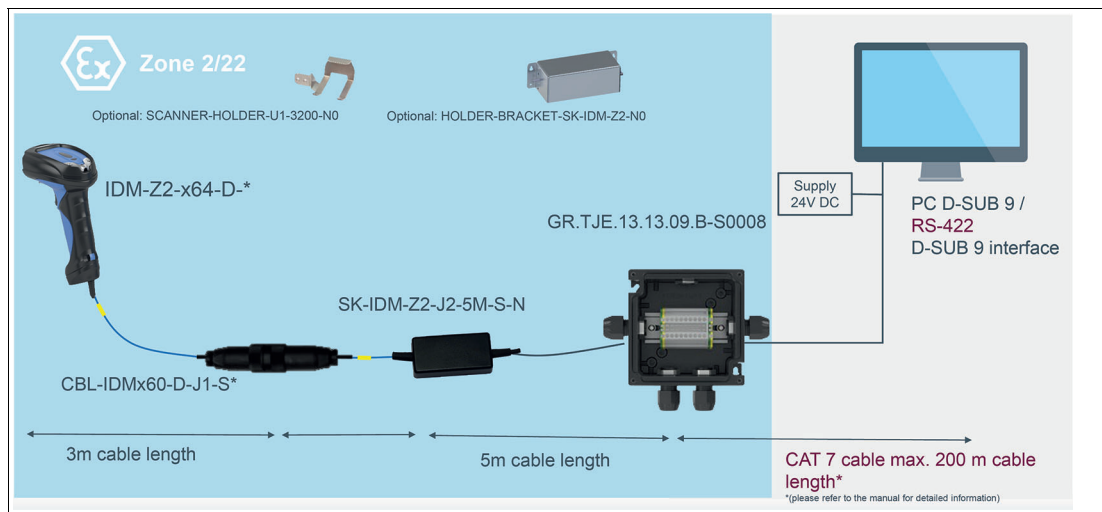




Figure 4.2

**Optional Accessories:**

Item Number	Product Name	Description	Photo
#548268	SCANNER-HOLDE-RU1-AG1-N0	Compatible with AG1 Housing and Holder-Bracket Material: Stainless steel AISI 304 (1,4301) Compatible with IDMx6x, ecom Ident-Ex® 01 Prepared for mounting to right side of housing	

Item Number	Product Name	Description	Photo
#70142693	HOLDER-BRACKET-SK-IDM-Z2-N0	Bracket to wall-mount SK-IDM-Z2-J2-* barrier - Material: Stainless steel AISI 304 (1.4301) - NOTE: Barrier not included!	
#70142118	GR.TJE.13.13.09.B-S0008	Enclosure material: glass fiber reinforced polyester (GRP) Enclosure size (HxWxD): 130 x 130 x 130 mm Finish: inherent color black Enclosure cover: fully detachable Gasket: foamed silicone Explosion protections gas: Ex eb IIC T4 Gb Explosion protection dust: Ex tb IIIC T135°C Db Ambient temperature: -40°C to +60°C Degree of protection: IP66 Certification: ATEX, IECEx & UKEx (others on request) Equipped with: 7x MUT2.5, labeled "1-7" x MUT2.5-PE, labeled "PE" 1x M20 – top centered 1x M16 (connection barcode reader cable) – bottom centered 1x blind plug or cable gland M16 left side 1x blind plug or cable gland M20 right side	



#### Note

The Supply cable is available for RS-232 and USB, make sure to use the compatible RS-232 supply (SK-IDM-Z2-J2-5M-S-N) - and connection cables (CBL-IDMx60-D-J1-S \*).

#### Description:

The handheld barcode scanner is designed to be used in explosion-hazardous areas Zone 2/22. For proper operation in explosion-hazardous areas, the permissible serial cordsets CBL-IDMx60-D-J1-S\* must be used. The intrinsically safe power supply and data transfer are realized via this cable. The connection in this structure uses the supply cable SK-IDM-Z2-J2-5M-S-N which is connected to the communication interface.

The RS-422 interface of the host PC is located in the non-explosion-hazardous area. Data communication is realized via the RS-422 interface, while the handheld barcode scanner is powered by the additional power supply. The power is transferred within the supply cable SK-IDM-Z2-J2-5M-S-N into intrinsically safe power. To overcome long communication distances up to 200 m, an optional GR.TJE.13.13.09.B-S0008 connection box can be installed.



#### Note

It is the customers' responsibility to ensure that the voltage drop over the given cable length is compensated via an appropriate input voltage of the power supply.

### 4.2.3 System Structure 3

**Overview of the complete system structure 3:** Wired handheld barcode scanner IDM-Z2-x64-D-\* connected via supply cable SK-IDM-Z2-J2-1M-U-N to the USB interface of the VisuNet FLX system.

#### Zone 2/22 Barcode Scanner, USB connection to VisuNet FLX:

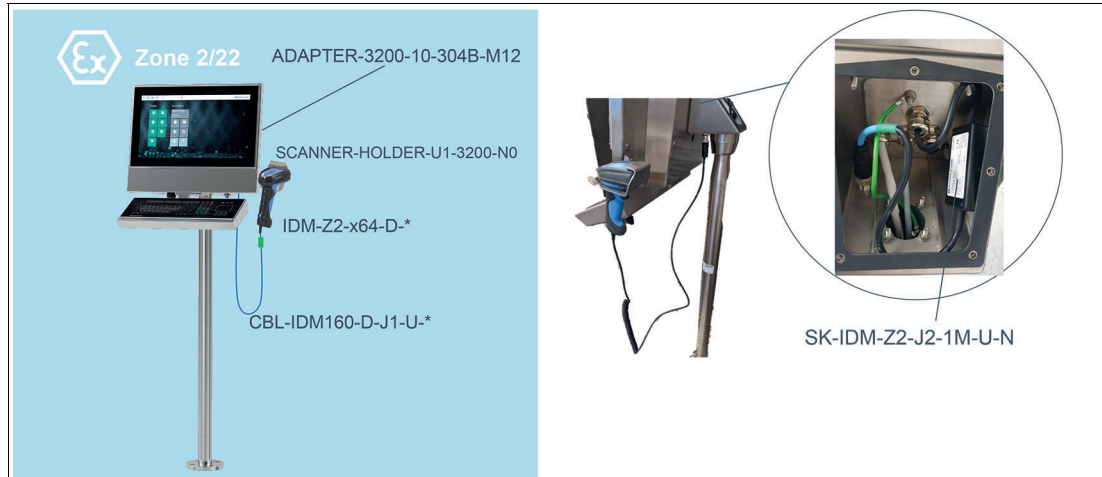


Figure 4.3

#### Required Components:

- VisuNet FLX System configured with adapter ADAPTER-3200-10-304B-M12
- Corded barcode scanner
- Connection cable
- Supply cable (USB)
- SCANNER-HOLDER-U1-3200-N0

#### Description:

The handheld scanner is designed to be used in explosion-hazardous areas. For proper operation in explosion-hazardous areas, the permissible USB supply cable SK-IDM-Z2-J2-1M-U-N cordsets must be used. The intrinsically safe power supply and data transfer are realized via this cable and directly connected to the USB port of the VisuNet FLX through the M12 cable gland of the backside of the system housing. The required adapter ADAPTER-3200-10-304B-M12 provides the housing feedthrough and has a connection socket that fits the scanner connection cable.

With one of the accessory cables CBL-IDM160-D-J1-U-\* the barcode reader can easily be connected to the connection socket of the adapter.

#### Note

Find details regarding the mechanical installation in the VisuNet FLX system manual.



## 4.3 IDM-Z2-164-D-1D-J2-SU-P-N0

### 4.3.1 System Structure 4

**Overview of the complete system structure 4:** Wired 1-D handheld scanner IDM-Z2-164-D-1D-J2-SU-P-N0 connected to the power module and the USB Ex i interface "3" (Module A or B) of the VisuNet GXP.

#### Z2 Barcode Scanner, connection to VisuNet GXP via "S3" interface

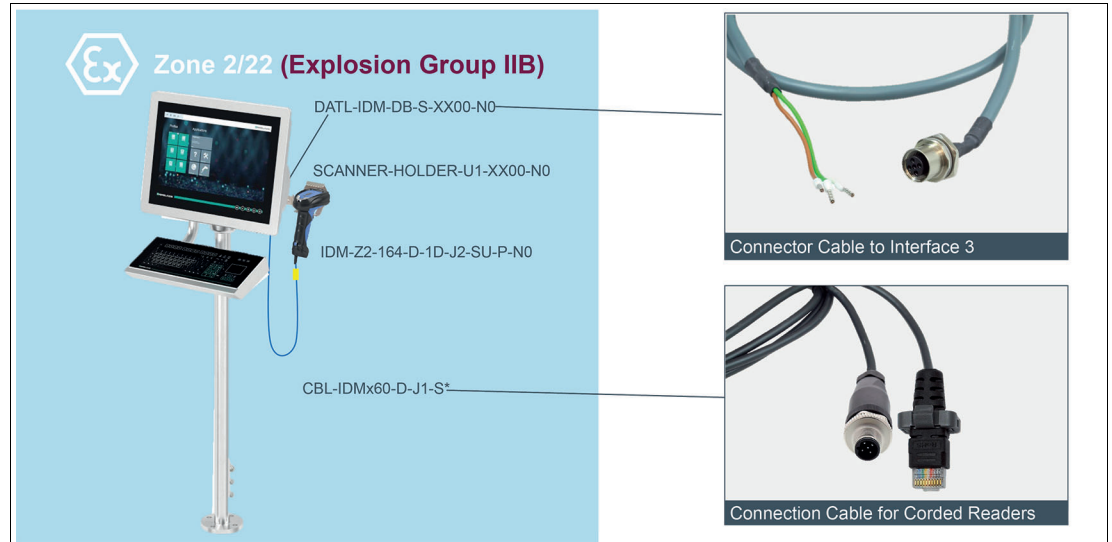


Figure 4.4

#### Required Components:

- VisuNet GXP system with interface "3"
- DATL-IDM-DB-S-XX00-N0 connection cable VisuNet GXP interface
- CBL-IDMx60-D-J1-S\* barcode scanner connection cable
- IDM-Z2-164-D-1D-J2-SU-P-N0 1-D barcode scanner
- SCANNER-HOLDER-U1-XX00-N0

#### Description

The handheld scanner is designed to be used in explosion-hazardous areas. For proper operation in explosion-hazardous areas, the permissible RS-232 cordsets CBL-IDMx60-D-J1-S\* must be used. The intrinsically safe power supply and data transfer are realized via this cable. An accessory cable DATL-IDM-DB-S-XX00-N0 is required for a connection to the VisuNet GXP in the AG-XX00 housing. This provides the housing feedthrough and has a connection socket that fits the scanner connection cable.



#### Note

The installation of the IDM-Z2-164-D-1D-J2-SU-P-N0 barcode reader to the integrated barrier of the VisuNet GXP requires the optional interface "3". Refer to the VisuNet GXP technical data (Module A and B) for further information regarding the interfaces.



#### Warning!

Zone 2/22 VisuNet GXP system installations are only suitable for use in explosion group IIB.

### 4.3.2 System Structure 5

**Overview of the complete system structure 5:** Wired 1-D handheld scanner IDM-Z2-260-D-2D-J2-S1-N-N0 connected to the power module and the USB Ex i interface "4" of the VisuNet GXP.

#### Z2 Barcode Scanner, connection to VisuNet GXP via interface "4"

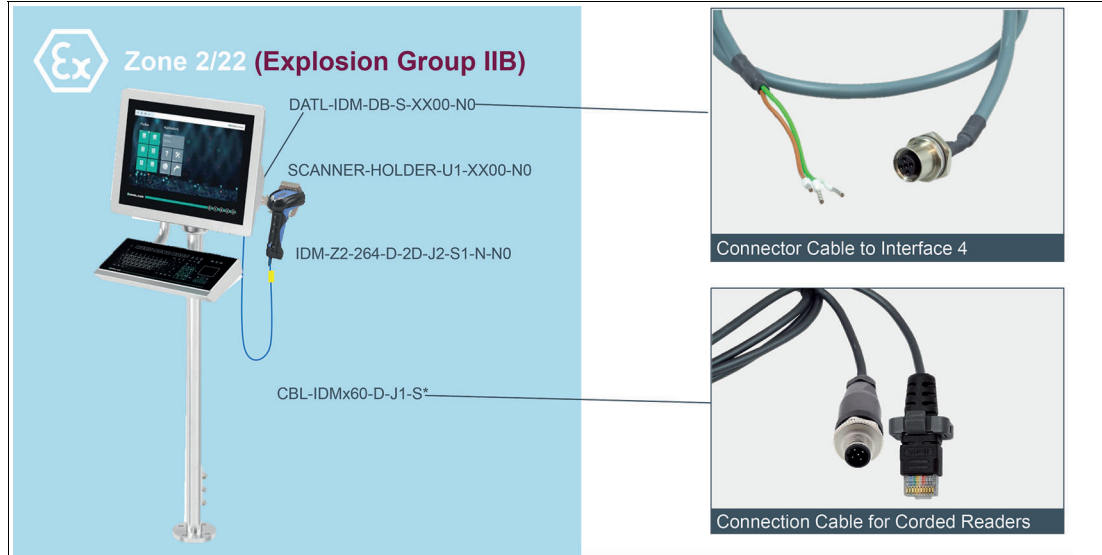


Figure 4.5

#### Required Components:

- VisuNet GXP system with interface "4"
- DATL-IDM-DB-S-XX00-N0 connection cable VisuNet GXP interface
- CBL-IDMx60-D-J1-S\* barcode scanner connection cable
- IDM-Z2-264-D-2D-J2-S1-N-N0 2-D barcode scanner
- SCANNER-HOLDER-U1-XX00-N0

#### Description:

The handheld scanner is designed to be used in explosion-hazardous areas. For proper operation in explosion-hazardous areas, the permissible RS-232 cordsets CBL-IDMx60-D-J1-S\* must be used. The intrinsically safe power supply and data transfer are realized via this cable. An accessory cable DATL-IDM-DB-S-XX00-N0 is required for a connection to the VisuNet GXP in the AG-XX00 housing. This provides the housing feedthrough and has a connection socket that fits the scanner connection cable.

#### Note

The installation of the IDM-Z2-264-D-2D-J2-S1-N-N0 barcode scanner to the integrated barrier of the VisuNet GXP requires the optional interface "4". Refer to the VisuNet GXP technical data (Module A and B) for further information regarding the interfaces.

#### Warning!

Zone 2/22 VisuNet GXP system installations are only suitable for use in explosion group IIB.





## 5 Commissioning

### 5.1 Connection of the Wired Handheld Readers



#### Connection of wired handheld readers

1. Connect the RJ50 plug on the connection cable CBL-IDMx60\* for connecting the handheld reader to the power module at the bottom of the scanner. Make sure that they are properly connected.

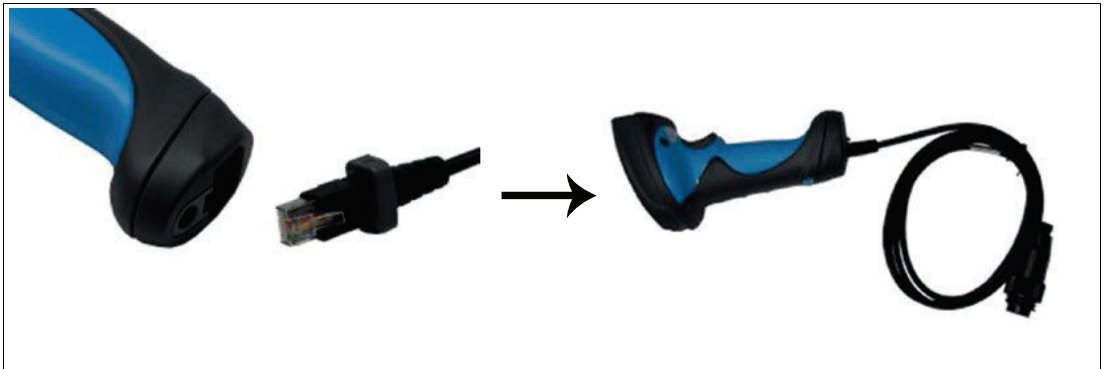


Figure 5.1

1. Connect the male M12 connector of the connection cable CBL-IDMx60\*. After plugging together, make sure that the connection is fully secured with the screw cap.

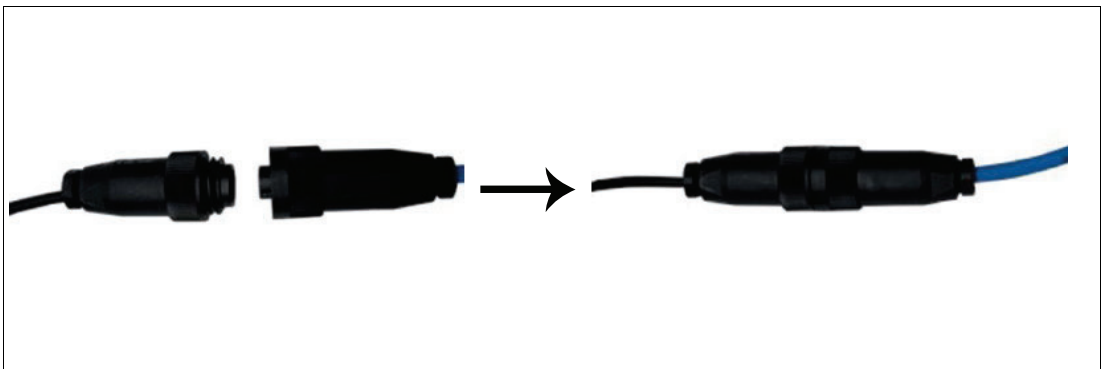


Figure 5.2

## 5.2 Pin allocation of supply cable SK-IDM-Z2-J2-5M-S-N RS-232 interface

Supply of the corded barcode reader Zone 2/22 according to system configuration 1 and 2 via plug-in connection plug/coupler.

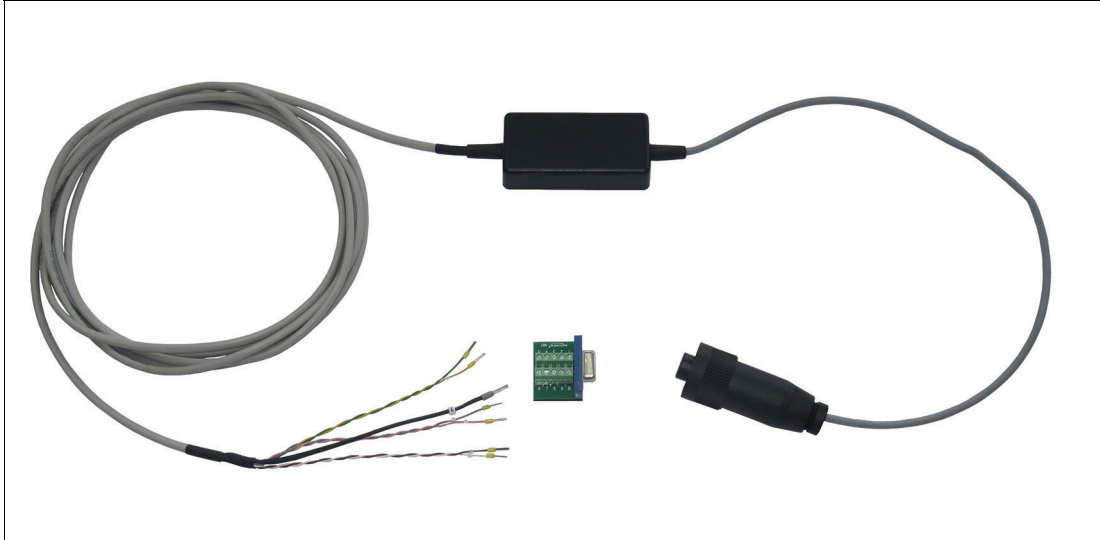


Figure 5.3



### Note

The serial connection cables come with a yellow marking.



### Danger!

Do not open the housing!

Before the unit is put into operation in a potentially explosive atmosphere, it must be ensured that the housing is closed and not damaged.



### Note

Changes to the pin assignment may only be carried out by trained and qualified personnel.

### Connection of the corded Zone 2/22 barcode reader to the supply cable RS-232 via plug-in connection plug/coupler

Basic connection cable RS-232		Supply cable	
Pin assignment connector		Connection coupling	
Pin	Designation	Pin	Designation
2	GND (brown)	2	GND (brown)
3	TxD (white)	3	RS-232 - TxD (white)
1	+UB (yellow)	1	Supply (yellow)

### Supply and data transmission with RS-232 interface to a host PC outside the hazardous area

Supply cable		
Pin	Designation	9-pole Sub-D RS-232 Pin
1	TXD / RS-232 (white)	2

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Supply cable		
2	GND / RS-232 (brown)	5
3	TxD+ / RS-422 (yellow)	
4	TxD- / RS-422 (green)	
5	GND (gray)	
6	+UB (pink)	
7	Shielding	SHL

**Note**

The wires are connected with the enclosed Sub-D plug. Supply via wires 5 and 6. When connecting without Sub-D, the shield must be connected to GND. The supply line can also be operated with RS-422 interfaces. The wires of the RS-422 connections must remain twisted up to the contact.

**Note**

Information relating to programming from the SICK AG manual ([www.SICK.com](http://www.SICK.com)) is required for the complete commissioning of the handheld reader.

### 5.3 Pin allocation of supply cable SK-IDM-Z2-J2-1M-U-N USB interface

Supply of the corded Zone 2/22 barcode reader according to system configuration 3 via plug-in connection plug/coupler.



Figure 5.4



#### Note

The USB connection cables come with a green marking.



#### Warning!

Do not open the housing!

Before the unit is put into operation in a potentially explosive atmosphere, it must be ensured that the housing is closed and not damaged.



#### Note

Changes to the pin assignment may only be carried out by trained and qualified personnel.

**Connection of the corded Zone 2/22 barcode reader to the supply cable USB via plug-in connection plug/coupler**

Basic connection cable USB		Supply cable	
Pin assignment connector		Connection coupling	
Pin	Designation	Pin	Designation
1	+UB (brown/red)	1	+UB (red)
2	D- (white)	2	D- (white)
3	D+ (green)	3	D+ (green)
4	GND (black)	4	GND (black)

**Supply and data transmission with a USB interface to a host PC outside the hazardous area**








Supply cable	
Pins	
Designation	USB Pin
+UB	1 (red)
D-	2 (white)
D+	3 (green)
ID	4
GND	5 (black)

**Note**

Information relating to programming from the SICK AG manual ([www.SICK.com](http://www.SICK.com)) is required for the complete commissioning of the handheld reader.




## 6 Accessories

### Corded handheld reader mounting accessories



Item number	Product name	Description	Photo
#548267	SCANNER-HOLDER-U1-XX00-N0	Reader holder compatible with Housing AG-XX00 Material: Stainless steel AISI 304 (1,4301) Compatible with IDMx6x, ecom Ident-Ex® 01 and PSCAN Prepared for mounting to right side of housing	
#548268	SCANNER-HOLDER-U1-AG1-N0	Reader holder compatible with Housing AG1 Material: Stainless steel AISI 304 (1,4301) Compatible with IDMx6x, ecom Ident-Ex® 01 and PSCAN Prepared for mounting to right side of housing	
#70129840	SCANNER-HOLDER-U1-3200-N0	Compatible with AG-3200 (VisuNet FLX) Material: stainless steel Holder for IDMx6x handheld readers and Ident-Ex® 01 Mounting bracket, simple and fast mounting	
#548353	SCANNER-HOLDER-IDMx6x-TRIPOD	Tripod reader holder Compatible to IDMx6x code reader	
#548354	SCANNER-HOLDER-IDMx6x-DESKTOP	Desktop reader holder Compatible to IDMx6x code reader	
#70147948	KIT-IDM-Z2-USB-N0	IDM Z2 USB Scanner Kit for VisuNet FLX 3200 System compatible with mounting adapter ADAPTER-3200-10-304B-M12 compatible with IDM Z2 USB Scanner & base station Consists of: - 1x M12 Panel Feed Through for FLX mounting adapter (ADAPTER-3200-10-304B-M12) - 1x strain relief latch ATEN Lockpro - 1x cable clamp	
#70142693	HOLDER-BRACKET-SK-IDM-Z2-N0	Bracket to wall-mount SK-IDM-Z2-J2-* barrier - Material: Stainless steel AISI 304 (1.4301) - NOTE: Barrier not included!	

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## Corded handheld reader accessories for VisuNet HMI Applications

Suitable for Zone 1/21 & Zone 2/22					
Item number	Product name	Description	Cable		Photo
#548333	CBL-IDMx60-D-J1-S-S18-N0	Connection cable for corded code readers Interface: RJ50 (Reader) with additional sealing ring to M12 male connector Protocol: Serial Compatible with IDM-Zx-x6x-D-* readers	Straight	1.8-m length	
#548334	CBL-IDMx60-D-J1-S-C38-N0		Coiled	3.8-m length	
#548335	CBL-IDM160-D-J1-U-S18-N0	Connection cable for corded code readers Interface: RJ50 (Reader) with additional sealing ring to M12 male connector Protocol: USB Compatible with IDM-Zx-x6x-D-* readers	Straight	1.8-m length	
#548336	CBL-IDM160-D-J1-U-C38-N0		Coiled	3.8-m length	
#548376	DATL-IDM-DB-S-XX00-N0	Connector cable for wired 1D reader IDM-Z1-164-D-1D-J1-SU-P-N0 (S3-Interface required) and 2D reader IDM-Z2-264-D-2D-J2-S1-N-N0 (S4-interface required) compatible with Housing AG-XX00-* and AG1 - 4-wire with ferrules - IDM reader connection via M12-connector - Note: Supports only RS-232 reader/Basestation	1.0-m length		

## Supply cables

Explosion protection: ATEX & IECEx Zone 2/22			
Item number	Product name	Description	Photo
#70142704	SK-IDM-Z2-J2-1M-UN	Cable-Barrier for corded 1-D & 2-D reader & base station Explosion protection: ATEX & IECEx Zone 2/22 Protocol: USB (via USB Type A connector) reader connection: USB Ex ic (via M12 female socket) Supply: 5 V DC (via host PC USB port) Cable length: 0,9m (fix length) Compatible with IDM-Z2-* devices with USB connection cables	
#70142705	SK-IDM-Z2-J2-5M-SUN	Cable-Barrier for corded 1-D & 2-D reader & base station Explosion protection: ATEX & IECEx Zone 2/22 Protocol: RS-232/422 to host Supply: 8 .. 30 V DC reader connection: Serial protocol Ex ic (via M12 female socket) Cable length: 5 m (fix length) Compatible with IDM-Z2-* devices with Serial connection cables	

## Ex e Junction Box Ex e for long communication distances

Item number	Product name	Description	Photo
#70142118	GR.TJE.13.13.09.B-S0008	Enclosure material: glass fiber reinforced polyester (GRP) Enclosure size (HxWxD): 130 x 130 x 130 mm Finish: inherent color black Enclosure cover: fully detachable Gasket: foamed silicone Explosion protections gas: Ex eb IIC T4 Gb Explosion protection dust: Ex tb IIIC T135°C Db Ambient temperature: -40°C to +60°C Degree of protection: IP66 Certification: ATEX, IECEx & UKEx (others on request) Equipped with: 7x MUT2.5, labeled "1-7" 2x MUT2.5-PE, labeled "PE" 1x M20 – top centered 1x M16 (connection barcode reader cable) – bottom centered 1x blind plug or cable gland M16 left side 1x Blind plug or cable gland M20 right side	



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