

Suitable for Ex- Zone 1
IECEX BVS 14.0039
BVS 14 ATEX E 063



Characteristics

Ex i- Area Imaging Scanner

- For industrial applications with frequent scanings
- Detects 1D-, 2D- und PDF- codes
- Bright, clear visible sight as well as outer lines in the projected scan field
- Excellent scan performance, even with bad printed or partially damaged bar codes
- Solid, impact proof housing for industrial use
- Protection class IP65

Ex- protection

- ATEX and IECEx certificate - Zone 1
- II 2 G; Ex ib op is IIB T4 Gb

Easy connection

- Connect the HS154 via the scanner interface SI154 to a common USB 2.0 interface
- No additional external power supply needed!



Description

The explosion proof hand held scanner HS154 is designed, specifically for operation in hazardous areas, Zone 1, and for use in harsh industrial environments.

The special scan- technology ensures best code scanning performance with maximum precision.

A successful scan is indicated by bright LEDs and signal tone. This allows easy working even in poor lighting conditions or noisy environments.

Barcodes can be scanned from a distance up to 75 cm. The new scanning technology can also be used for damaged or poorly printed codes with a contrast ratio from 20%.

The corresponding scanner interface SI154 serves as intrinsically safe (Ex i) power supply of the hand scanner and a safe separation of the USB 2.0 signals, at a connection to a PC in safe area.

The SI154 can be installed both in the safe area, or in an enclosure with protection class Ex d, Ex p, or within a PC100 module.

Dimensions



housing height: 42 mm

Technical Details

Type		Scanner- Interface SI154	Hand held scanner HS154
General	Mounting / operation	Safe area, in Ex d, Ex p housing or PC100- module	Ex- area, Zone 1
	Ex- protection	II (2) G; [Ex ib Gb] IIC	II 2 G; Ex ib op is IIB T4 Gb
	EC - type certificate	IECEX BVS 14.0039 BVS 14 ATEX E 063	IECEX BVS 14.0039 BVS 14 ATEX E 063
Ambient conditions	Ambient temperature	-20°C ... 50°C	-20°C ... 50°C
	Storage temperature	-40°C ... 70°C	-40°C ... 70°C
	Relative air humidity	5-95%, non condensing	5-95%, non condensing
Housing	Dimensions [L x B x H]	136 x 90 x 42 mm	95 x 75 x 210 mm
	Housing protection	IP 40	IP 65
	Weight	200 g	ca. 350 g
Electrical Specifications	Power supply	via USB- interface (5 V)	via SI154
	Current consumption / Standby	ca. 500 mA / ca. 0,5 W	-
	Data interface	USB 2.0	via SI154
Scan performance	Scan Pattern	-	Area Imager (836 x 640 pixel array)
	Motion tolerance	-	Up to 610 cm/s (240 in/s) at 16.5 cm (6.5") and 381 cm/s (150 in/s) at 25 cm (10.0") for 13 mil UPC
	Symbol contrast	-	20% minimum reflectance difference
	Pitch / Skew	-	45° / 65°

For Ex limit values, see certificates BVS 14 ATEX E 063 resp. IECEX BVS 14.0039

Type code

2D- Hand held scanner	HS154	.
Standard- cable length: 3 m.....		.0

Other cable length on demand
(Total length of USB- connection up to 5 m)

Scanner- Interface	SI154	.
Mounting:		
Mounting on 35 mm rail0
Wall mounting1
Without housing, encapsulated.....		.2

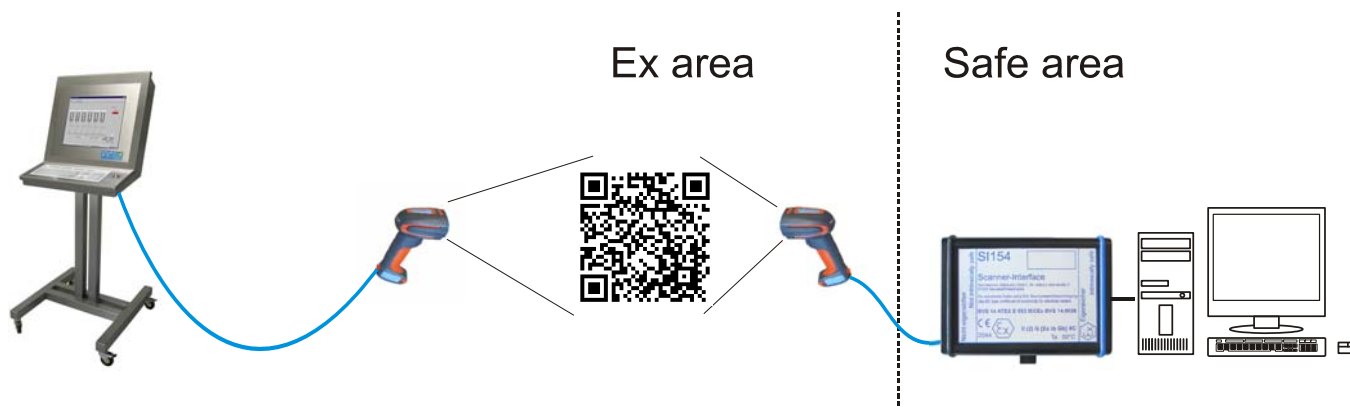
Accessories : Wall holder for HS154 on demand

Application

Scan performance (quantitative)

Typical Performance*	Extended Range (ER)
Narrow Width	
7,5 mil Code 39	48 mm - 310 mm
13 mil UPC	15 mm - 543 mm
20 mil Code 39	15 mm - 749 mm
6,7 mil PDF417	69 mm - 226 mm
10 mil DM**	71 mm - 261 mm
20 mil QR	20 mm - 495 mm
1D- Auflösung Code 39	5 mil (0,127 mm)
2D- Auflösung DM**	7,5 mil (0,191 mm)

*Performance may be impacted by bar code quality and environmental conditions
**Data Matrix (DM)



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	<p>GÖNNHEIMER 09/2014, subject to change without notice</p>		