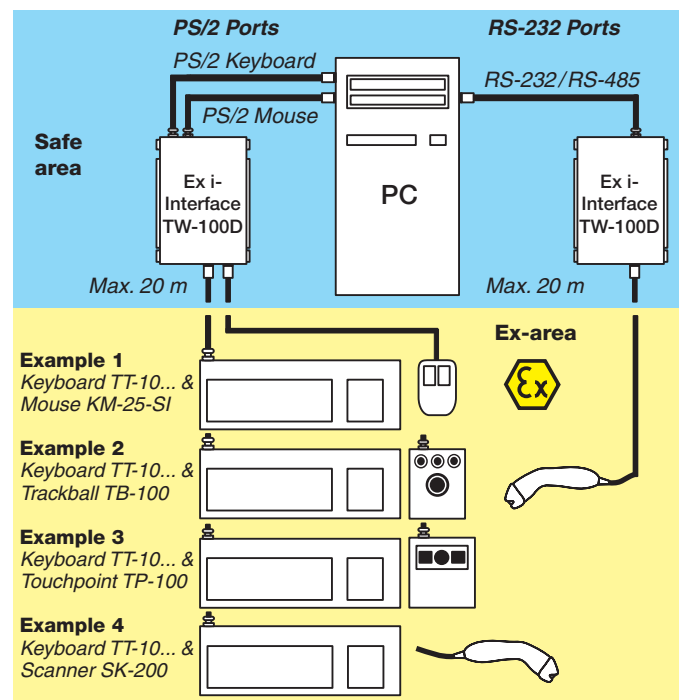# Ex Barcode Laser Scanner

- The laser scanner SK-200 is approved according to the latest European ATEX standards. The certification makes it suitable for applications within Ex zones 1, 2, 21 and 22.

- The robust industry case with rubber components will withstand repeated falls from a height of 1.5 m on to a concrete surface.

- Its ergonomic design and light weight (155 g) allow for maximum ease of use and productivity, as well as long working periods free from tiredness.

- Simple scanner configuration by reading bar codes from the manual or downloaded from internet offers easy implementation and handling. Reads all standard bar codes even from long distances.

- Automatic activation of scan engine through built-in IR distance detector ensures high efficiency. Optionally release of bar code read-in for transmission to host via key (Code Gate Technology).

- Acoustic and optical feedback during scanning and configuration by different sounds and LED colours.

- Connection with EEx i interface TW-100D or Ex PC with standard RS-232 or PS/2 cables and plugs. No special components necessary.
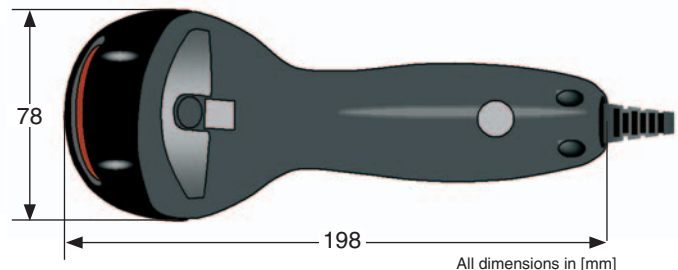
EEx i Laser Barcode Scanner SK-200 for universal industrial use in Ex-areas

PS/2 Ports

RS-232 Ports

PS/2 Keyboard

RS-232 / RS-485

PS/2 Mouse

Safe area

Ex i-Interface TW-100D

PC

Ex i-Interface TW-100D

Max. 20 m

Max. 20 m

Ex-area

Example 1
Keyboard TT-10... & Mouse KM-25-SI

Example 2
Keyboard TT-10... & Trackball TB-100

Example 3
Keyboard TT-10... & Touchpoint TP-100

Example 4
Keyboard TT-10... & Scanner SK-200

E.L.B. EX-GERÄTE
D-64625 Bensheim

Technical Data SK-200

Feature		Laser scanner SK-200 in a robust industry case with high protection class for universal industrial use in Ex-areas
Ex-protection	Installation	Zone 1, 2, 21 and 22
	Certification	EX II 2 G, EEx ib IIC T4, TÜV 02 ATEX 1823
		EX II 3 G, EEx nA II T4, TÜV 03 ATEX 2030
		EX II 2 D, T70°C, IP65, TÜV 02 ATEX 1823
	Protection Class	Tested and certified according to IP65
Technical features	Laser	Visible Laser Diode, 650 nm, <1 mW
		(Class 1 acc. to EN 60825-1:1994/ A11:1996)
	Activation	Automatically by infrared sensor at 0−229 mm ±51 mm distance or optionally by pressing a button (Code Gate Technology)
	Scan Rate	72 scans/second
	Beam Width	290 mm at 250 mm distance from the object
	Line Width	0.13 mm (5.0 mil) minimum
	Available Bar Codes	Automatic Decoding of all standard bar codes
	Programming	Via bar codes from the configuration guide
	Status Indication	Acoustic Signal: 7 sounds, may be switched off or modified
		Display: LED Green = beam on, ready;
		Red = successful reading
	Interface	PS/2 Keyboard Wedge or RS-232 (serial)
	Cable	90 cm coiled lead (7 m when extended)
	Connector	DIN/Mini-DIN adapter for PS/2, 9 pin delta plug for RS-232
	Weight	155 g
Case	Dimensions	H x W x D = 75 x 78 x 198 mm
	Material	Lexan housing, black, with rubber shields
	Fall Test	Withstands repeated falling from 1.50 m height on concrete ground
Permissible limits	Rated Current	160 mA at 5 VDC reading; 40 mA standby
	Electrical Data EEx-i	U_i = 5.45 V; P_i = 1.3 W; L_i and C_i = negligible
	Ambient Temperature	Operation: -30 °C ... +50 °C
		Storage: -40 °C … +60 °C
	Humidity	5 % to 95 % relative humidity, non-condensing

SK-200

75

78

198

All dimensions in [mm]

Order information

EEx i Barcode Laser Scanner SK-200

EEx i Barcode Laser Scanner with Code Gate Technology SK-200