



## SensorReady 3D

### USB Measuring Interface for Incremental Length Measuring Systems

#### Specifications

Measuring channels	3
Position resolution	up to 1 nm (depends on the measuring systems used)
Interpolation accuracy	0.1 % of signal period (MR/analog 5Vpp <sup>1</sup> , 1Vpp)
Signal inputs	2× MR/analog 5Vpp <sup>1</sup> 1× configurable: MR/analog 5Vpp <sup>1</sup> , TTL/RS-422, 1Vpp, TTL (non differential) on request
Specification of signal inputs	MR/analog 5Vpp <sup>1</sup> , 1Vpp: interpolation up to factor 12,868 TTL/RS-422: up to 25 MHz
Operation	software, instruction set
Interfaces	USB: connection to PC <sup>2</sup> Feature Connector: various connection options <sup>3</sup> , e.g. reference switch input for 3rd measuring system, RS-232 interface
Software	GetPos (processing of positioning data on Windows)
Programming	ASCII
Shielding	shield is connected to housing, optional: separation of shielding and ground
Operating voltage	24 V
Dimensions	165 × 62 × 29 mm (L × W × H, without adaption plate)
Delivery contents	SensorReady 3D, MR encoder cable (2 channels), USB cable, ext. power supply 24 V/30 W incl. 4 adapters (EU/GB/USA/AUS), operating manual, installation CD

#### Order Information

Order No.: 00-76-901-4830

#### Product Features

- ▶ product variant of the digital readout unit PROFILER SCD without integrated display
- ▶ precise length measurement for up to 3 incremental length measuring systems
- ▶ processing of position data via software GetPos or directly via instruction set
- ▶ reference switch inputs available for all axes
- ▶ position error correction possible
- ▶ instruction set compatible with SCD 5, SCD 6 and SCD<sup>plus</sup>
- ▶ compatible with all measuring stages<sup>4</sup> and Z-axis measuring systems from Märzhäuser Wetzlar
- ▶ mounting plate for easy installation

#### Accessories

MR encoder cable axis 3 (2 m)  
 Order No.: 00-76-650-9807

Customized TTL/RS-422/1Vpp sensor cables according to customer requirements