IP-Link interface

Labelling areas
Signal status display

M23 I/O
connection sockets

status display:
Box supply (Us)

Auxiliary voltage (Up)

Power supply feed

Power supply down-
stream connection

IE5009

1 | GNDs
2 | +24 V DC Us
3 | Clock +
4 | Clock -
5 | Data +
6 | Data -
7 | n.c.
8 | n.c.
9 | n.c.
10 | n.c.
11 | n.c.
12 | n.c.

1 | + 24 V DC Us
2 | + 24 V DC Up
3 | GNDs
4 | GNDp

**Connector
assignment**

IE5009 | 1-channel SSI encoder interface

The IE5009 SSI interface module allows an SSI encoder to be connected directly. The encoder is powered via the SSI interface. The interface circuit generates a pulse for reading the encoder and makes the incoming data stream available to the controller as a data word in the process image. The module can optionally provide the data as binary numbers or as a binary gray code. Various operating modes, transmission frequencies and bit widths can be permanently stored in a control register.

Technical data	IE5009
Number of channels	1
SSI encoder connection	M23 connector with outer thread, 12-pin
Nominal voltage	24 V DC (-15 %/+20 %)
Signal input	difference signal (RS485)
Encoder supply	24 V DC, from load voltage
Data transfer rates	variable up to 1 MHz, 250 kHz default
Serial input	24 bits (adjustable)
Data direction	read
Power supply connection	feed: 1 x M8 male socket, 4-pin; downstream connection: 1 x M8 female socket, 4-pin
Current consumption from U_S (without sensor current)	55 mA
Bit width in the process image	input: 1 x 32 bit data (1 x 8 bit control/status optional)
Electrical isolation	yes, via IP-Link
Operating/storage temperature	0…+55 °C/-25…+85 °C
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. class/installation pos.	IP 65/66/67 (conforms to EN 60529)/variable
Approvals	CE, UL

Accessories	
ZS2000-5911	M23 plug (12-pin/straight version), solder connection