

Signal converter K23-SSI/R2/25B-C

- Suitable for the connection of sensors and absolute encoders with SSI interface
- Converts both SSI data and serial data into a parallel format
- Parallel output 25 bit (Push-pull, short-circuit proof)
- RS 232 Interface for the serial read out of sensor information
- SSI:Master or slave operation
- Specified option for arbitrary linearization characteristics
- Additional functions such as z. B. bit masking, concentricity function
- Supply 18 V DC ... 30 V DC

Signal converter SSI/RS 232/Parallel

Function

K23-SSI/R2/25B-C represents a small and low-cost, but highly performant converter for industrial applications, where the information of a sensor or encoder with SSI interface needs to be converted to a parallel signal or a serial RS 232 data format. Also it is possible to convert serial RS 232 data to a parallel format. The unit has been designed as a compact module with 12 screw terminals, a 9-pin and a 25-pin Sub-D connector (female). The housing is suitable for standard DIN rail mounting.

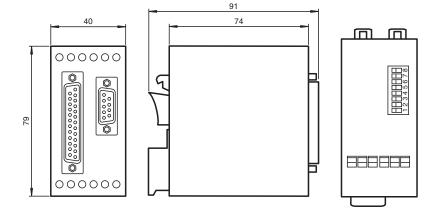
Applicable encoders and sensors:
Single-turn or multi-turn absolute encoders and all similar sensors using a standard SSI interface (6 .. 25 bits of resolution with binary or Gray code). The unit can operate in either master mode (clock signal generated by the unit), or in slave mode (clock signal generated by a remote device).

Remark about the encoder resolution:

The unit provides settings for the standard resolutions of 13 bits, 21 bits and 25 bits. In general, for sensors with other resolutions you can use the next higher setting (i. e. set the unit to 21 bits with a sensor of 16 bits).

Depending on brand and specification of the encoder, in some cases it may be necessary to blank out the surplus bits by using the bit blanking function described later. In general however, the unit should work perfectly also without special bit blanking.

Dimensions



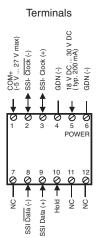
Technical Data

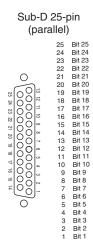
Release date: 2020-03-26 Date of issue: 2020-03-26 Filename: 189340_eng.pdf

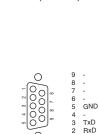
Electrical specifications		
Rated operating voltage	U_e	18 30 V DC
Rated operating current	l _e	≤ 200 mA
Input 1		
Input type		SSI
Input format		Gray code, binary code

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

Connection







Sub-D 9-pin

(RS 232)

