



IP5009-Bxxx | 1-channel SSI encoder interface

The IP5009 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	IP5009-Bxxx
Connection technology	M23 connector with outer thread, 12-pin
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
Sensor supply	from control voltage, max. 0.5 A total, short-circuit-proof
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 Us (without sensor current)	see documentation
Bit width in the process image	input: 1 x 32 bit data (1 x 8 bit control/status optional)
Electrical isolation	depends on the bus system
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