



## IP6012-Bxxx | 1-channel serial interface TTY, 20 mA current loop

The IP6012 serial interface module allows the connection of devices with a 20 mA current interface. The interface operates passively. The module transmits the data in a fully transparent manner to the higher-level automation device. The data is transferred via the fieldbus using a simple handshake protocol. This does not have any effect on the protocol of the serial interface. The active serial communication channel functions independently of the higher-level bus system in full duplex mode at up to 115,200 baud, while a 128 bytes receive buffer and a 16 bytes send buffer are available. The current interface guarantees high immunity to interference through electrically isolated signals with injected current.

Technical data	IP6012-Bxxx
Data transfer channels	2 (1/1), TxD and RxD
Data transfer rates	1200...115,200 baud, 9600 baud (8 bits, no parity, 1 stop bit) is preset
TTY connection	M12, screw type
Nominal voltage	24 V DC (-15 %/+20 %)
Bit transfer	2 x 20 mA
Load	< 500 Ω
Cable length	max. 1000 m twisted pair
"0" signal current	0...3 mA
"1" signal current	14...20 mA
Data buffer	128 bytes receive buffer, 16 bytes transmit buffer
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/output: 3 x 8 bit user data, 1 x 8 bit control/status (up to 5 x 8 bit user data are possible)
Electrical isolation	TTY/control voltage: 500 V, to the fieldbus: 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