Manual pulse generator with USB interface

MICRONOR®
mechanical products

MR190 SERIES

For machining, control panel, laboratory equipment

➤ **Different output signal**

➤ **RS232- or USB- interface**

➤ **Including knob**

➤ **100 pulses per turn**

Product description

The series MR190 is perfect to use in front of a machine or inside in a handheld unit. The compact and small size helps to design in all application around machining. The intergraded encoder creates different signals and send 100 pulses per round to your controller. With RS232 interface 8..30VDC supply voltage or over the USB interface directly. MVSCOM Software.

Application

This manual pulser is also placed in front of all CNC machine, wood handling machine line, baggage handling machine line, paper handling machine line, telescope movement, laboratory equipment.

Technical Data

Power consumption	max. 40mA
Sampling frequency	max. >5 kHz
Supply voltage	12VDC
Torque	<0.2Ncm
Detent torque (click point)	8Ncm
Life time	20×10^6 cycle (200 rpm)
Operating and storage temperature	-10°C + 60°C
Air humidity	85% RH
Vibration	10…55 Hz 1.5mm 2hr
Shock	50G (11ms) X, Y, Z
Weight	ca. 300g

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Reference drawing in mm

Drehknopf
Rotary knob

Grösse 78mm
Size 78mm

CW ← → CCW

Electrical connection RS232

D-Sub 9 Pin on unit

Pin	
Pin 1	8-30VDC (40mA)
Pin 2	TxD
Pin 3	RxD
Pin 4	N/C
Pin 5	GND
Pin 6	N/C
Pin 7	CTS
Pin 8	N/C
Pin 9	N/C

Connector D-Sub 9 Pin M3 fixing screw

USB

Connector

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Quick start guide

The handwheel can be either via the 9-pin D-sub socket or be operated via the 5-pin mini-USB socket.

The connection to the MR190 evaluation electronics via a 8-pin connector. Via this plug MR190 from value electronics is supplied with 5V.

Connect to PC
The programm mvscom.exe is attached to the operation of the hand wheel on the PC (Windows XP).

This program requests the counter of the handwheel in the 70ms clock. The response log of the handwheel is displayed in a window. With the button start, starts the communication. Each time, the counter value in the handwheel is set to 0. With the button stop, the communication stops. The baud rate must be set to 38400 baud. From the baud menu adjusts the communication port used by the PC. If the handwheel via USB is connected, the wheel also appears as COMx port. The corresponding COM port in the drop-down menu appears, the handwheel must start already before the program mvscom be connected.

At the close the machine pulley rotates about the USB port requires Windows to the appropriate USB to load drivers. This is ftdi/CDM on the CD under the directory 2.04.16 WHQL certified. This driver simulates handwheel as COMx port on the PC the USB. The advantage of this is that receiver software was written for the RS232 interface can be used.
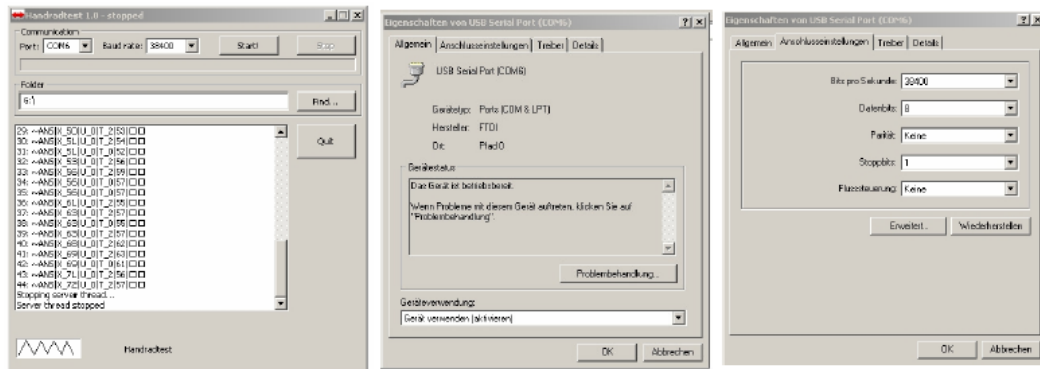
MVS Terminal

USB/COM Port setting

mvscon Software   init file
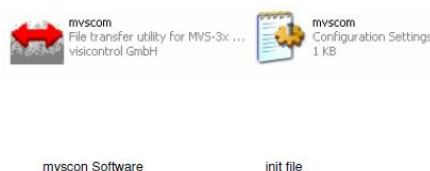
Order code

9000.00.777   **MR190 with USB interface**

Do you have any Questions ?   Phone: +41 (0)44 843 40 20 or Mail: sales@micronor.ch