

MR190 SERIE



for Machining, Control Panels, CNC Machines

- ➔ Different Output Driver
- ➔ Compact size
- ➔ including Knob
- ➔ 100 Pulses per Turn

Product description

The series MR190 is perfect to use in front of a CNC 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.

Application

This manual pulser is placed in front of all CNC-Machines, NC- Machines and Handheld units.

Technical specifications

Current consumption	max. 70mA
Scanning frequency	max. >5 kHz
Output current RS 422	Zw. 0 and +4.8V immer vorhanden
Output A and B switchable	Between 0 and +5V or 0 and VCC
Output voltage	Vcc -0.7V
Resolution	1% = 3.6°
Torque	<0.2Ncm
Torque (click point)	8Ncm
Rotation life (Notched disc)	1.10 ⁶ Umdr. (200 rpm)
Operating temperature	-10°C +60°C
Storage temperature	-20°C +70°C
Atmospheric humidity	85% RH
Vibration	10...55 Hz 1.5mm 2hr
Shock	50G (11ms) X, Y, Z
Weight	200g

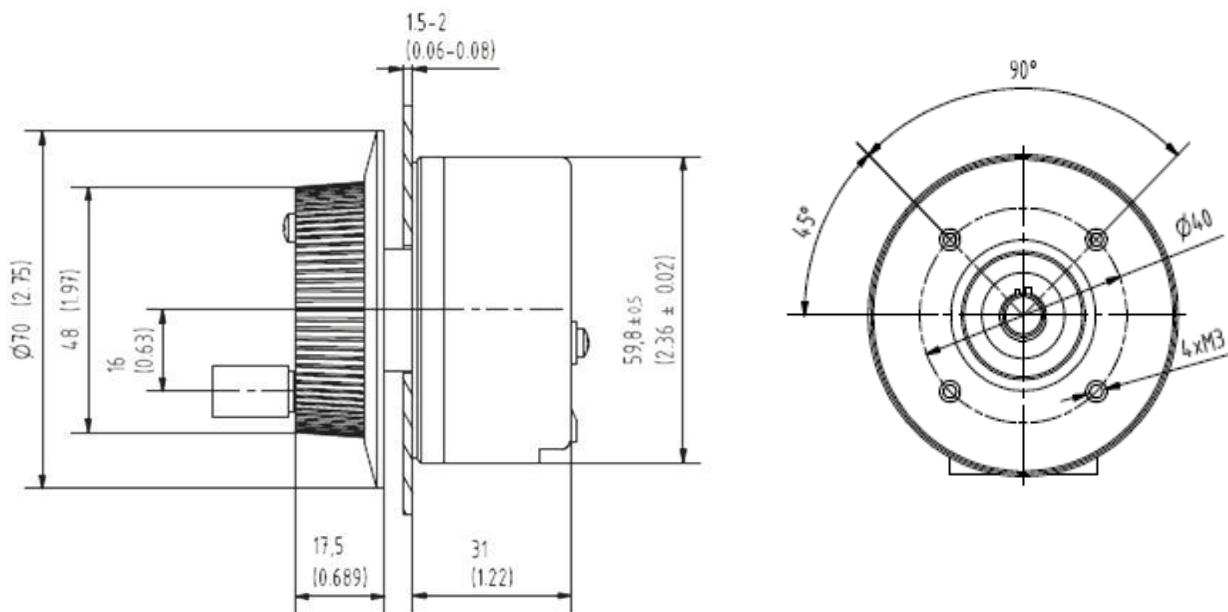
Manual pulser generator

MR190 SERIE



Dimension in mm

Mounting bore
4xØ3.2mm



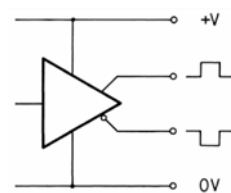
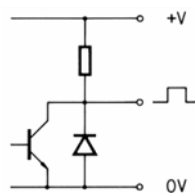
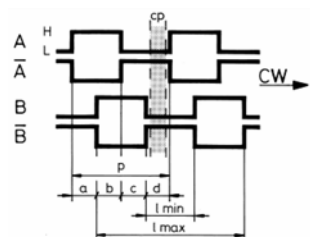
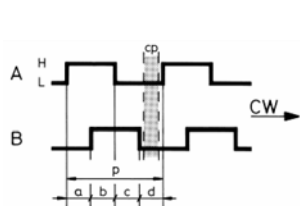
Output driver

cp = Click point
p = Periode

Line Driver (ESM74)

Pull up (2 KΩ intern)

Line driver (RS 422)

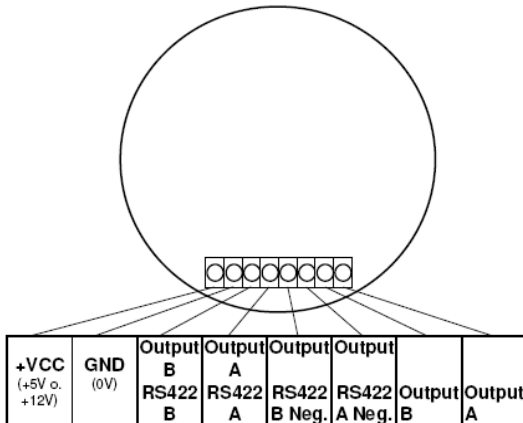


Manual pulser generator

MR190 SERIE



Electrical connection



Order Codes

9350.01.121	MR190.1	(replaced ESM80)
	Signal Output	Push-Pull + Line Driver
	Entry Current	4.9 - 5.3 VDC
	Entry resistant	326 Ohm
	Max. Output current	4V
9350.01.123	MR190.3 (Fanuc)	(replaced ESM70)
	Signal Output	Push-Pull + Line Driver
	Entry Current	4.9 - 5.3 VDC
	Entry resistant	2 KOhm
	Max. Output current	4V
9350.01.127	MR190.7	(replaced ESM74)
	Signal Output	Push-Pull + Line Driver
	Entry Current	4.9 - 5.3 VDC
	Entry resistant	2 KOhm
	Max. Output current	4V
9350.02.128	MR190.8	(replaced ESM72)
	Signal Output	Push-Pull + Line Driver
	Entry Current	11.9->12.5V
	Entry resistant	2 KOhm
	Max. Output current	4V



Questions ?

Phone: +41 (0)44 843 40 20 or Mail: sales@micronor.ch

Digitale Wegaufnehmer Manual pulse generator

Serie ESM 74



• Impulse / Pulses (Feinrasterung / Precision click point)	100
• Kanäle / Channels	A / B / A' / B'
• Speisespannung / Power supply	5V DC
• Ausgangstreiber / Output driver	Line driver
• Schutzart (montiert) / Protection (mounted)	IP 64

Bestelltext
Typ

How to order
Type

Digitaler Wegaufnehmer
ESM74.4.100.5.D.R

Bestellschlüssel

Order key

ESM74.4.100.5.D.R

Typ

Gehäusegrösse $\varnothing$ 70 mm

Ausgangskanäle

Impulse / Umdrehung

Speisespannung

Ausgangstreiber

Kabelanschluss (Schraubklemme)

Typ

Dimension DIA 2.75 inch

Number of channels

Pulses / Revolution

Power supply

Output driver

Connection (Terminal block)

A / B / A' / B'

100

5V DC $\pm$ 5%

Line driver

rückseitig / at rear side

Technische Daten

Stromverbrauch

Abtastfrequenz

Ausgangsbelastung

Signalpegel

Anstiegs + Abfallzeit

Technical data

Power consumption

Scanning frequency

Output current

Signal level

Signal rising + Falling time

<60 mA

<5 kHz

20 mA

High = -1V / Low = <0,5V

200 ms

Auflösung

Drehmoment

Rastmoment (Click point)

Lebensdauer (Raster)

Arbeits- / Lagertemperatur

Luftfeuchtigkeit

Vibration / Schock

Gewicht

Resolution

Torque

Torque (Click point)

Rotation life (Notched disk)

Operating- / Storage temperature

Atmospheric humidity

Vibration / Shock

Weight

1 % = 3,6°

<0,2 Ncm

4 Ncm

1.10⁶ Umdr. (200 rpm)

-10 °C +60 °C / -30 °C +80 °C

35...85 % RH

20 m/s² = 50 Hz / 50 G (11 ms)

~220 g

Ausgangskanäle / Output channels

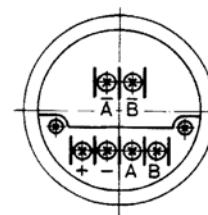
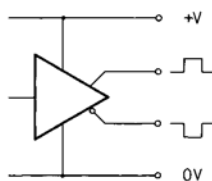
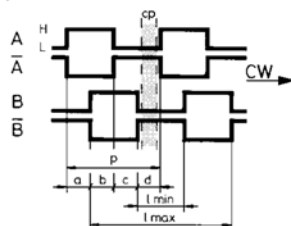
cp = Rasterabstand / Click point

p = Periode

Ausgangstreiber / Output driver

Line driver (RS 422)

Anschlüsse / Connection



Massbild (Zoll in Klammern) / Outline drawing (inch. in bracket)

Option: Kunden / Customer LOGO

Bohrplan / Cut out

¹⁾ Dichtung / Packing

