

# RESENZO

Sensoren und industrielle Regelungstechnik

## MetaPot Potentiometer Membrane rotatory Model MTP-R

### Features

- extremely flat
- IP 65
- backside selfadhesive
- high life cycle

### Applications

- Position sensing
- Servosystems
- Industr. applications
- Automotive



### Electrical Characteristics

Resistance range (Rn)	2,5k $\Omega$ / 90°
Resistance tolerance	$\pm$ 30%
Electrical angle	345° other angles on request
Independent linearity	$\pm$ 2%- $\pm$ 5% (depending on the temperature range)
Power rating	0,25 W /100mm at 40°C
Resolution	<10 $\mu$ m
Repeat accuracy	<0,1%
Hysteresis	<0,5% depending on the installation conditions
Max. wiper current	5 mA in failure mode
Wiperload	> 100* Rn
Temperature coefficient of output signal	$\pm$ 100 ppm/°C

### Mechanical Characteristics

Lifetime	> 5 000 000 cycles
Max. operating speed	0,1 m/sec
Sandwich thickness	0,5 mm
External slider force	1-3 N (typical)
Wiper	POM or stainless steel

### Environmental Characteristics

Operating temperature	A (-25°C ... + 60°C), B (-25°C...+85°C) C(-25°C...+125°C)
Protection class	IP 65, except connector and plug

### Material

Substrate	PET foil, FR4
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### Electrical connections

Crimp female connector, crimpsolder contacts, (1)

Specifications subject to change without notice  
(1) Other values on request

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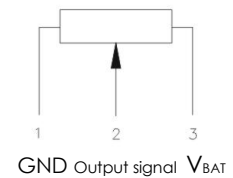
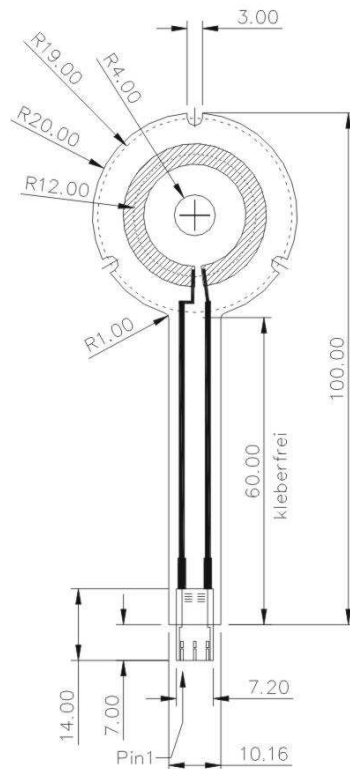
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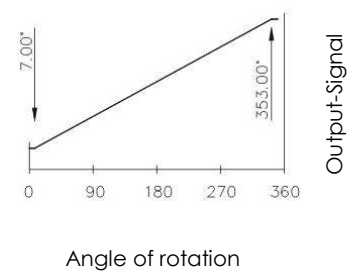


### Drawings

345°



without glue



### How to order

<b>M</b>	<b>T</b>	<b>P</b>	<b>R</b>	<b>1</b>	<b>8</b>	<b>0</b>	<b>A</b>	<b>1</b>
<b>Series</b>			<b>Attachment</b>	<b>Angles of rotation</b>			<b>Temperature range</b>	<b>Possible connections</b>
MetaPot			R - Approximately (rotative)	90°- 1K	180°- 2K	270°- 3K	A - -25°C up to 70°C B - -40°C up to 85°C C - -40°C up to 125°C	1 - Connector housing Berg Duflex 2 - Connector housing Crimflex 3 - Solder pins Crimflex

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