



**Novotechnik U.S., Inc.**155 Northboro Road  
Southborough, MA 01772

Phone: 508-485-2244

Fax: 508-485-2430

Email: info@novotechnik.com

Type designations	PD2310...5A-MB	PD2310...5A-UK	PD2310...5A-FK
<b>Mechanical Data</b>			
Dimensions	see drawing A	see drawing A	see drawing A/B
Mounting	nut M10 x 0.75, serrated washer	nut 3/8" UNEF, serrated washer	
Mechanical travel	3,600		°
Permitted shaft loading (axial and radial) static or dynamic force	3		N
Torque	≤ 0.7		Ncm
Permitted max. torque for mech. stops	50		Ncm
Maximum operational speed	120		RPM
Weight	22		g
<b>Electrical Data</b>			
Actual electrical travel	3,600		°
Available resistance values	1; 5; 10		kΩ
Resistance tolerance	±5		%
Repeatability	see order designations		
Effective temperature coefficient of the output-to-applied voltage ratio	5 (typical)		ppm/K
Independent linearity	±0.15		%
Max. permissible applied voltage	42		V
Recommended operating wiper current	≤ 10		μA
Max. wiper current in case of malfunction	50		mA
Insulation resistance (500 VDC, 1 bar, 2 s)	≥ 10,000		MΩ
Dielectric strength (AC, 50 Hz, 1 min, 1 bar)	1,000		V
<b>Environmental Data</b>			
Temperature range	-55...+125		°C
Vibration	30...2000 A <sub>max</sub> = 0.75 a <sub>max</sub> = 10		Hz mm g
Life	1 x 10 <sup>6</sup>		movements
Shock (DIN IEC 68 T2-27)	50 7		g ms
Protection class (DIN 40050)	IP 50		

**Order designations**

Type	Art. no.	R in kΩ	Repeatability
PD2310 1K0 5A127 MB	048026	1	0.031% (= 1.1°)
PD2310 5K0 5A127 MB	048029	5	0.021% (= 0.76°)
PD2310 10K0 5A127 MB	048032	10	0.020% (= 0.72°)
PD2310 1K0 5A127 UK	048027	1	0.031% (= 1.1°)
PD2310 5K0 5A127 UK	048030	5	0.021% (= 0.76°)
PD2310 10K0 5A127 UK	048033	10	0.020% (= 0.72°)
PD2310 1K0 5A127 FK	048025	1	0.031% (= 1.1°)
PD2310 5K0 5A127 FK	048028	5	0.021% (= 0.76°)
PD2310 10K0 5A127 FK	048031	10	0.020% (= 0.72°)

**Order designations /****Abbreviations**

5A: connecting side pin

MB: bushing

M10 x 0.75, axis Ø 6 mm,  
with slotUK: imperial thread UNEF 3/8",  
axis Ø 6.35 mm, with slotFK: imperial thread 3/8" with pilot  
diameter, axis Ø 6.35 mm  
with slot**Included in delivery**

1 nut M10 x 0.75

or 3/8" UNEF

1 serrated washer 3/8"

**Recommended accessories**MAP process-control indicators  
and display. MUP signal condi-  
tioner for standardized output  
signals.**Important**All values given for this series –  
including linearity, lifetime, micro-  
linearity, resistance to external  
disturbances and temperature  
coefficient in voltage dividing  
mode – are quoted for the device  
operating with the wiper voltage  
driving an operational amplifier  
working as a voltage follower  
where virtually no load is applied  
to the wiper (I<sub>e</sub> ≤ 1 μA).

Subject to changes

© June 2004

Novotechnik U.S., Inc. All rights reserved.