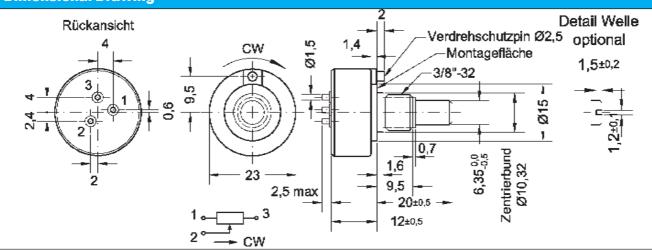
Single-Turn, Conductive Plastic Potentiometer Series MUP190 / MUP191

- Body diameter 22 mm ((7/8")
- Brass bushing, stainless steel shaft
- With or without mechanical stop
- Linearity tolerance ±2% (±1%)
- Life expectancy 2 million turns

The MUP190/191 are reliable and rugged precision potentiometers. Their long life and various options make them suitable for a wide range of industrial applications. Preference types from stock.

Dimensional Drawing



Electrical Specifications	MUP190	MUP191					
Technology	Condu	Conductive plastic					
Electrical angle	340° ±4°	320° ±4° (270° ±5°)					
Resistance value	11	1100 kOhms					
Resistance tolerance	±20%	±20% (±10% opt.)					
Linearity tolerance	±2%	±2% (±1% opt.)					
Output smoothness acc. MIL-R-39023		< 0,2%					
Min. voltage		< 0,5%					
Power at +70°C (0W at 105°C)		1 W					
Wiper current	100 μA max. /	100 µA max. / 1 µA recommended					
Insulation resistance	1000 MO	1000 MOhm at 500 VDC					

Mechanical Specifications	MUP190	MUP191				
Mechanical angle	360° without stop 330° ±5 with stop (280					
Max. rotational speed	100 rpm					
Life expectancy (turns)	2 x 10 ⁶					
Bearing	sleeve bearing					
Max. running torque	0,25 Ncm					
Stopper strength	/	35 Ncm				
Max. torque for fastening the mounting nut	100 Ncm					

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Single-Turn, Conductive Plastic Potentiometer Series MUP190 / MUP191

Environmental Specifications and Materials				
Housing Material	engineered plastic			
Shaft	stainless steel			
Terminals	gold-plated brass pins			
Mounting Material (included in delivery)	hex-nut, inner teeth washer			
Operating Temperature	-35°C+105°C			
Protection grade ot the shaf (optional)	IP 65			
Weigth	20 g			

Options and Order Descriptions

Options and Order Descriptions										
Options Description	Series									
Conductive plastic without stop	MUP190									
Conductive plastic with stop	MUP191									
Resistance value 1 kOhm		<u>R1K</u>								
Resistance value 2 kOhm		R2K								
Resistance value 5 kOhm		<u>R5K</u>								
Resistance value 10 kOhm		<u>R10K</u>								
Resistance value 20 kOhm		R20K								
Resistance value 50 kOhm		R50K								
Resistance value 100 kOhm		R100K								
Resistance tolerance ±10 %			W10%							
Resistance tolerance ±20 %			<u>W20%</u>							
Linearity tolerance ±2 %				<u>L2%</u>						
Linearity tolerance ±1 %				L1%						
Special shaft length xx (optional)					Axx					
screw driver slot (optional)						В				
Sealing ring in the bushing							D			
Elec. anlge 340° (standard MUP190)								<u>340</u>		
Elec. angle 320° (standard MUP191)								<u>320</u>		
Elec. angle xx (optional)								XX		
Example ordering description (standard)	MUP190	<u>R1K</u>	W20%	<u>L2%</u>						
Example ordering description (special version)	MUP191	R100K	W10%	L1%	A15	В	D	90		

Example* (standard): MUP190 resistance value 1 kOhm, resistance tolerance 20%, linearity tolerance 2% Example** (special): MUP191 resistance value 100 kOhm, resistance tolerance 10%, linearity tolerance1%,

shaft length 15 mm, screw driver slot, sealing ring, elec. angle 90°

Please ask for more options

Preference types underlined (available from stock)

A wide range of options on request for a reasonable prices already for small quantities

O-ring on shaft, special shaft (length, shape, flat, slot, etc.), special bushing, special electrical angles, center tap, assembling of cables and connectors.

Please note

All the specifications and informations in this datasheet can not consider the special demands that are caused by the application. Because of this, they are no general description of the properties of the product. Please consider also our detail specifications.

