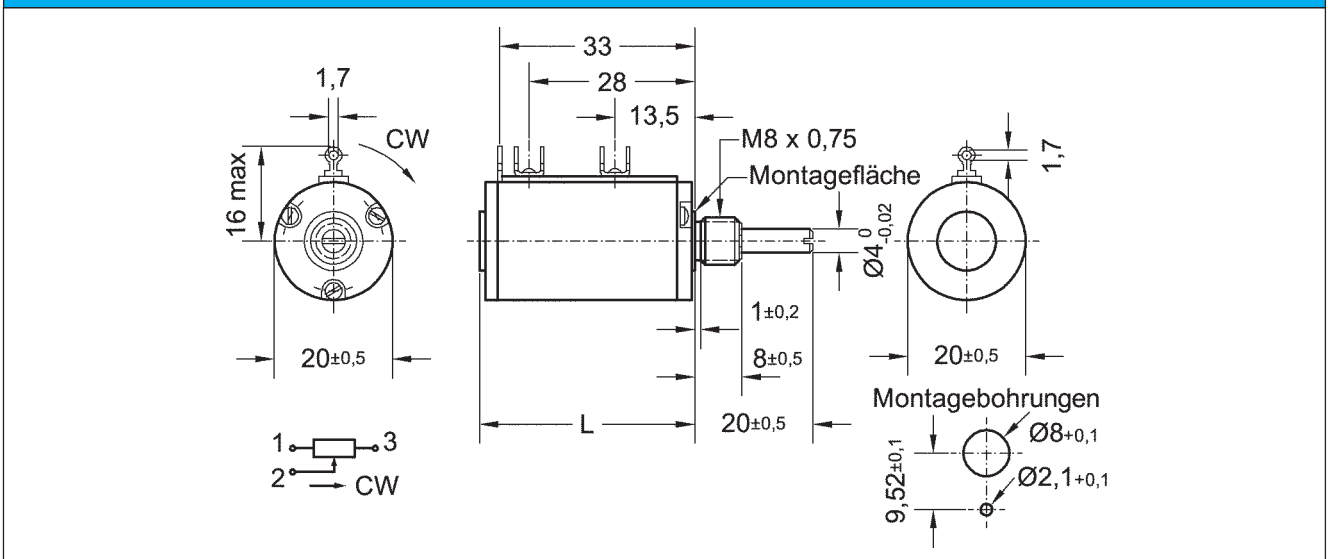


- Resistance value from 100 Ω to 20 kΩ
- Linearity tolerance ±0,25%
- Low cost
- Life expectancy 200.000 turns

The CM500 and CM1000 are high resolution potentiometers with tight tolerances. They are good setpoint devices and extremely well-priced .



Dimensional Drawing



Electrical Specifications	5 turn	10 turn
Elementtechnologie	wirewound	
Electrical anlg	1800° ±10°	3600° ±10°
Resistance value	0,1..20 kOhm	0,1..5 (10, 20) kOhm
Resistance tolerance	±5 %	
Linearity tolerance	±0,25 %	
Noise (ENR)	<100 Ohm	
Power at +40°C (0W at 125°C)	1,5 W	2 W
Wiper current	max. 0,1 mA / recommended 35 mA	
Insulation resistance	200 MOhm at 500 V DC	

Mechanical Specifications	5 turn	10 turn
Mechanical anlg	1800° +15 -0°	3600° +15 -0°
Life expectancy (turns)	200 000 rpm	
Bearing	Gleitlager	
Starting torque	<1 Ncm	
Stopper strength	50 Ncm	
Max. torque for fastening the mounting nut	100 Ncm	

Environmental Specifications and Materials	
Housing	thermosetting plastic (Duroplast)
Shaft	nickel-plated brass
Bushing	nickel-plated brass
Terminals	solder lugs, silver-plated
Mounting parts (included in delivery)	hex-nut, innter teeth washer
Operating temperature	-30 .. +85 °C
Weight	25 g

Number of windings, Resolution								
Resitance value	100	200	500	1k	2k	5k	10k	20k
CM500 windings	900	1400	1200	1600	2100	2600	3500	3900
CM500 Resolution in % (100% / no. wdg.)	0,101	0,071	0,083	0,062	0,048	0,039	0,029	0,026
CM1000 windings	1600	1900	3100	2500	3300	3900	5300	7000
CM1000 Resolution in % (100% / no. wdg.)	0,062	0,053	0,032	0,040	0,031	0,026	0,019	0,014

Options and Order Descriptions									
Description	Options	Series							
			Potentiometer (5 Wendel) 4 mm shaft diam.	CM500					
Potentiometer (5 Wendel) 4 mm shaft diam.	CM500								
Potentiometer (10 Wendel) 4 mm shaft diam.	CM1000								
Potentiometer (10 Wendel) 4 mm shaft diam.	CM1000								
Res. Vallue 100, 200, 500, 1k, 2k, 5k , 10k, 20k		R							
Resistance tolerance ±5% (±1%)			W						
Linearity tolerance 0,25%				L					
Ordering example* standard	CM500	R1K	W5%	L0,25%					
Ordering example** special version	CM1000	R20K	W5%	L0,25%					

Example* standard: CM500, resistance value 1 kOhm, resistance tolerance ±5%, linearity tolerance ±0,25%
 Example** special: CM1000, resistance value 20 kOhm, resistance tolerance ±5%, linearity tolerance ±0,25%

Preference resistance values (bolded) from stock.

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.

