

# WP20CS-08-60F1

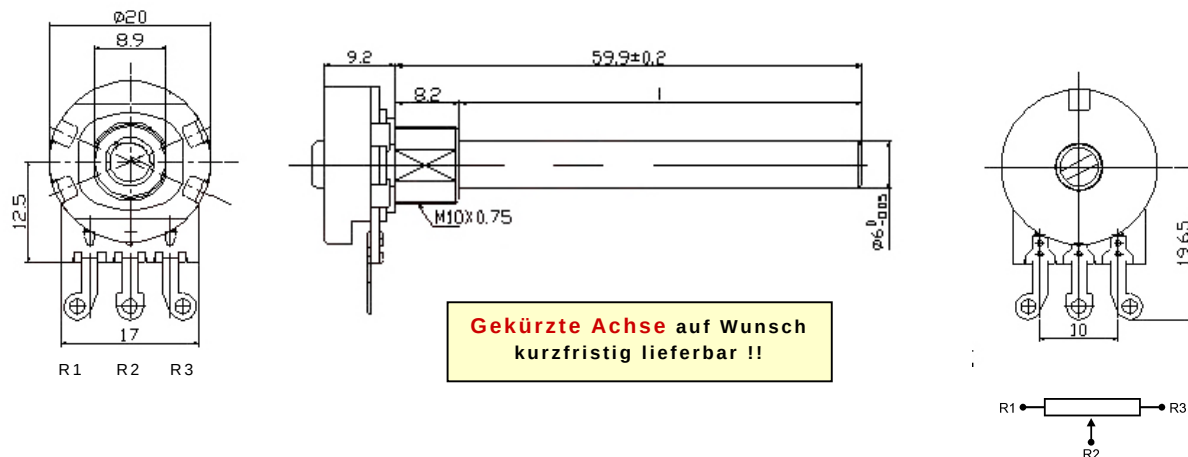
Rotary Potentiometer 20mm Singles  
Carbon / Without Switch / Rotation Angle: 300°

## CHARACTERISTICS

| MECHANICAL CHARACTERISTICS |                                |                               |
|----------------------------|--------------------------------|-------------------------------|
|                            | Rotation Angle                 | 300° ±5°                      |
|                            | Operation Torque               | 1.4 ~ 2.5 Ncm (Strong Torque) |
|                            | Permissible Torque At End Stop | 80 Ncm max                    |
|                            | Mechanical Life                | 10.000 cycles                 |

| ELECTRICAL CHARACTERISTICS |                        |                                                                                             |
|----------------------------|------------------------|---------------------------------------------------------------------------------------------|
|                            | Temperature Range      | -10°C ~ +70°C                                                                               |
|                            | Rated Power            | 0.4W lin / 0.2W non lin                                                                     |
|                            | Max. Operation Voltage | 200VDC lin / 150VDC non lin                                                                 |
|                            | Resistance Range       | 100Ω to 5MΩ (lin) / 1KΩ to 2.2MΩ (non lin)                                                  |
|                            | Resistance Tolerance   | ±20% (≥1MΩ = ±30%) / ±10% upon request                                                      |
|                            | Resistance Law         | LIN (linear) – marking code „B“ (e.g. B10K)<br>LOG (pos log) – marking code „A“ (e.g. A10K) |
|                            | Residual Resistance    | 10KΩ ≥ R = 10Ω max / 250KΩ > R > 10KΩ = 20Ω max<br>R ≥ 250KΩ = 0.1%R max                    |
|                            | Insulation Resistance  | ≥ 100MΩ at 500VDC                                                                           |
|                            | Electrical Life        | 10.000 cycles (10~17 times/minute)                                                          |
|                            | Soldering              | T ≤ 260°C t ≤ 3s                                                                            |

## OUTLINE DRAWING (Unit = mm)



| MATERIALS & HOW TO ORDER |                                                     |
|--------------------------|-----------------------------------------------------|
| Housing                  | Metal                                               |
| Bush                     | Metal / M10x0.75mm / Length: ~8mm / Type C          |
| Spindle                  | Plastic / Diameter = 6mm / Length = ~50mm / Type F1 |
| Ordering example         | WP20CS-08-60F1-10K-20%-LIN                          |



Ordering example for version with individual spindle length:  
**WP20CS-08-25F1-10K-20%-LIN** (for spindle length 25mm) or  
**WP20CS-08-15F1-10K-20%-LIN** (for spindle length 15mm) ...

Passende Mutter und Beilagscheibe  
sind im Lieferumfang enthalten.

# WP20CS-08-60F1

Rotary Potentiometer 20mm Singles  
Carbon / Without Switch / Rotation Angle: 300°

## Standard Resistance Values / Law

### Series E3

|      |      |      |
|------|------|------|
| 100R | 220R | 470R |
| 1K0  | 2K2  | 4K7  |
| 10K  | 22K  | 47K  |
| 100K | 220K | 470K |
| 1M0  | 2M2  | 4M7  |

### Resistance Law

