

- **Conductive plastic potentiometers**
- **Robust mechanical layout for industrial applications**
- **Linearity $\pm 0,05\%$**
- **Life expectancy up to 100 million cycles**
- **Infinite resolution**
- **With axial connector M12, radial or axial cable exits at option**

Construction

Rectangular case in anodised aluminium - Shaft in stainless steel - Shaft entry either with floating guidance against dust (AF) or with lip seal (AG) to protection grade IP 65 - Conductive plastic resistance elements - Precious metal wipers - Axial connector or axial or radial cable exit - Ball joints at shaft end and / or case on request.

Mechanical data

- Operating speed: 10 m/s (max.)
- Operating force: < 2 N (IP60)
- Variant AF < 10 N (IP65)
- Variant AG < 10 N (IP65)
- Protection grade: IP 65

Electrical data

- Linearity: $\pm 0,05\%$
- Resistance tolerance: $\pm 20\%$
- Consumption at 40°C: 3 W
- Consumption at 100°C: 0 W
- Max. wiper current: 1 mA
- Recommended wiper current: < 0.1 μ A
- Supply voltage.: 60 VDC max.
- Insulation resistance: > 100 MOhm (500 VDC)
- Temperature coefficient of out put voltage: < 1.5 ppm /°C
- Repeatability: ± 0.01 mm

Environmental data

- Operating temperature range: - 30 °C to + 100 °C
- Storage temperature: - 50 °C to + 120 °C
- Resistance to vibration: 20 g (5 to 2.000 Hz)
- Resistance to shock: 50 g (11ms)

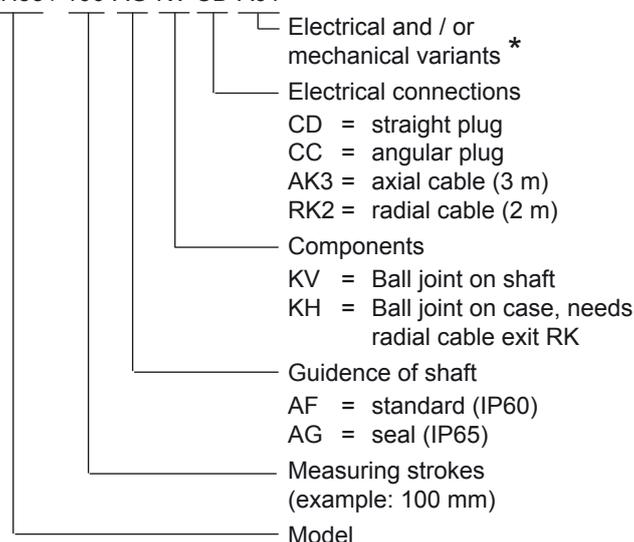
Supply and signal conditioning

By ACTIPOT models as per data sheet 10346.



Oder code format

RH33 / 100-AG-KV-CD-A01



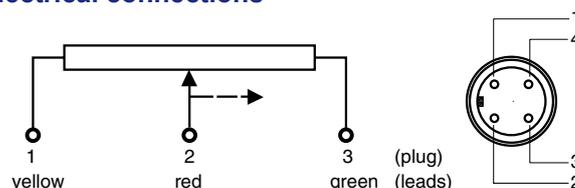
* The basic versions in accordance with the data sheet bear the code number 01. Variations of the basic version are indicated by a consecutive number and are documented in our works.

Counter plugs

- STK4GS10: straight, plastic (STBG)
- STK4GS09: straight, metal (STBGM)
- STK4WS05: angled, plastic (STBW)
- STK4GS08: straight, plastic, 10 m cable (STK65)

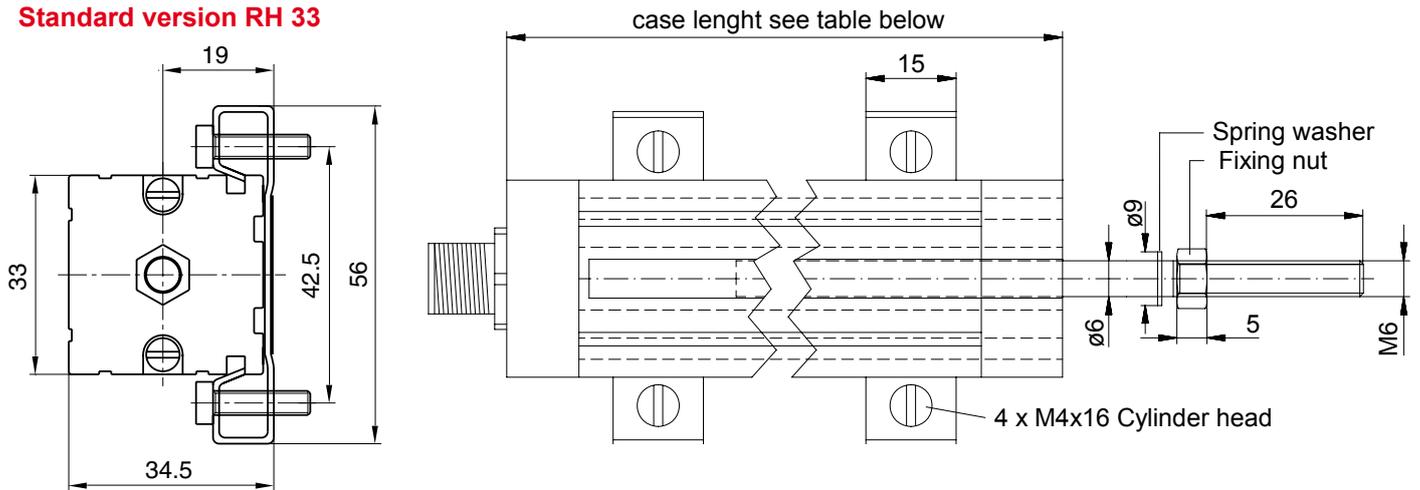
To be ordered separately .

Electrical connections

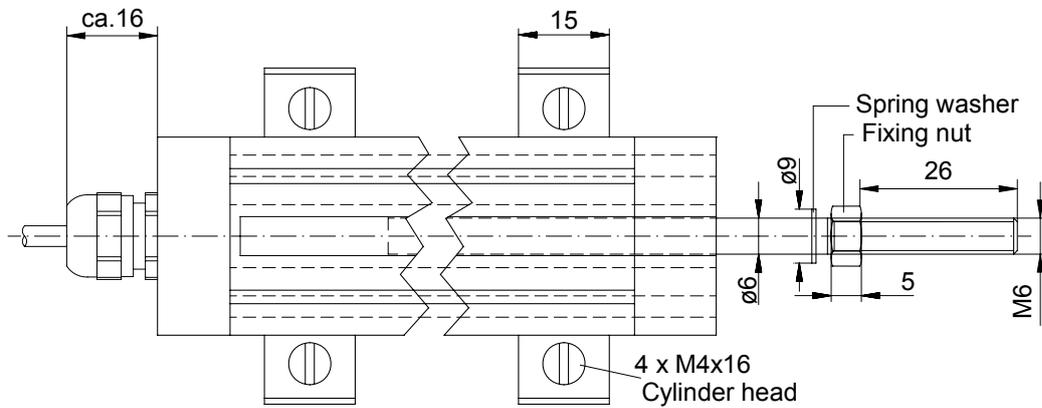


Dimensions in mm

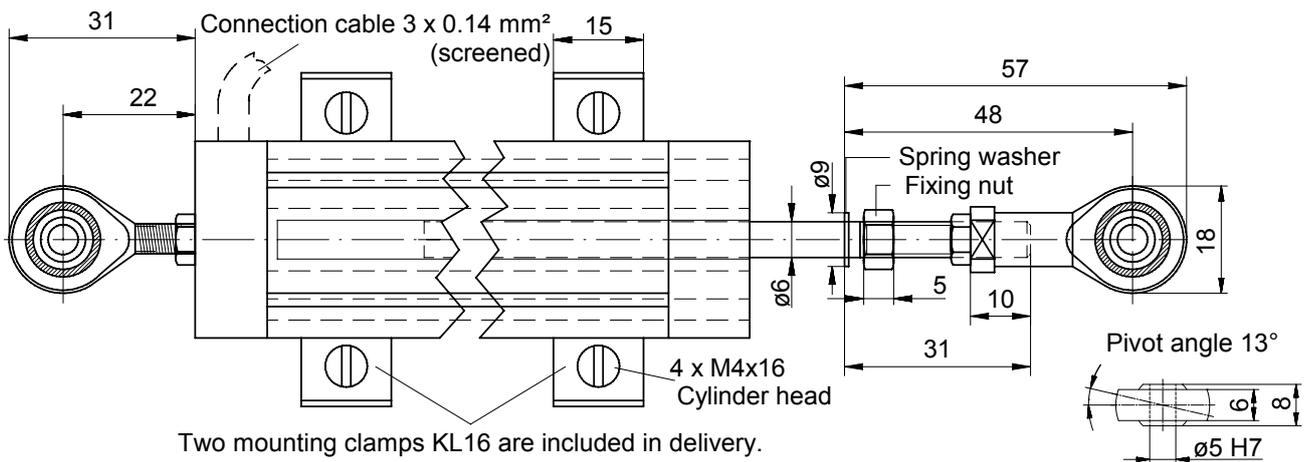
Standard version RH 33



Version RH 33 with cable output



Version of RH 33 with ball joint on the plunger (KV) and on the case (KH)



Measuring strokes and technical data

Measuring strokes	[mm]	100	150	200	250	300	400	500	600	700	800	900	1000
Mechanical strokes	[mm]	109	159	210	260	310	412	518	619	721	823	924	1024
Resistance	[kOhm]	5	5	5	5	5	10	10	20	20	20	20	20
Case length	[mm]	162	212	263	313	365	465	571	672	774	876	977	1077

The measuring strokes are situated in the center of the mechanical strokes.