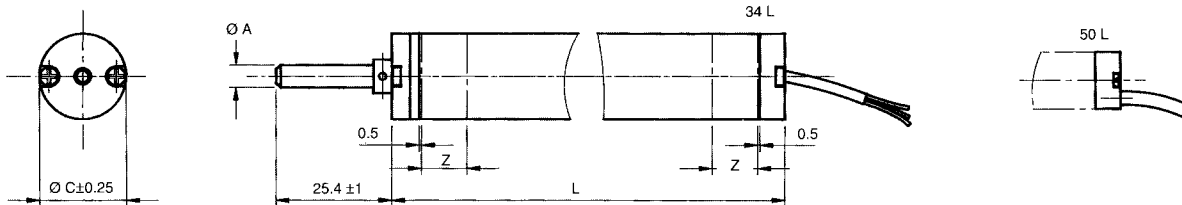


# STANDARD MODEL



## ELECTRICAL CONNECTIONS

Terminals wire cable

3 Alim. (+) : green blue

2 Wiper : red red

1 Alim. (-) : yellow white

TET = Theoretical electrical travel

AET = Actual electrical travel

MT = Mechanical travel

Table 1

Table 2

TET = E	AET	Tolerance
25 mm to 275 mm	E + 1 mm	±0,5 mm
300 mm to 450 mm	E + 1 mm	±0,8 mm

Dimensions		50 L	34 L
Shaft	$\varnothing A$	- 0 3,175 - 0,025	- 0 5 - 0,025
Body	$\varnothing C$	12,7	19,05
Body length	L	E + 41	E + 63
Tightening zone	Z	7	12

## ELECTRICAL SPECIFICATIONS

	50 L	34 L
<b>Theoretical electrical travel (TET = E)</b>	25 mm	25 mm
<b>in increments of 25 mm</b>	300 mm	450 mm
<b>Independent linearity (over TET)</b>	$\leq \pm 1 \%$ ; $\leq \pm 0,1 \%$	
on request	$\leq \pm 0,05 \%$ for E $\geq 100$ mm $\leq \pm 0,025 \%$ for E $\geq 200$ mm	
<b>Actual electrical travel (AET)</b>	see table 1	
<b>Ohmic values (Rr)</b>	400 $\Omega$ /cm to 2 k $\Omega$ /cm	
on request	from 150 $\Omega$ /cm	
<b>Resistance tolerance at 20°C</b>	±20 %	
<b>Repeatability</b>	$\leq 0,01 \%$	
<b>Maximum power rating</b>	0,02 W/cm at 70°C 0 W at 125°C	
<b>Wiper current</b>	recommended : a few $\mu A$ - 1 mA max. continuous	
<b>Load resistance</b>	minimum $10^3 \times Rr$	
<b>Number of tracks</b>	1; on request 2	
<b>Insulation resistance</b>	$\geq 1000 M\Omega$ 500 V DC	
<b>Dielectric strength</b>	$\geq 500$ VRMS 50 Hz	$\geq 750$ VRMS 50 Hz

## MECHANICAL SPECIFICATIONS

	50 L	34 L
<b>Mechanical travel</b>	TET + 2 mm min	
<b>Housing</b>	anodized aluminium	
<b>Operating force</b>	0,35 N typical	2,50 N typical
	(standard model)	(sealed model)
<b>Shaft (free-rotation)</b>	stainless steel	
<b>Termination</b>	3 wires PTFE AWG-30 L = 300 mm	
on request	cable or connector	
<b>Wiper</b>	precious metal multifinger	
<b>Sealing</b>	IP65 on request	

## PERFORMANCES

<b>Operating life</b>	100 millions cycles typical
<b>Temperature range</b>	-55°C, +125°C
<b>Sine vibrations on 3 axes</b>	1,5 mm peak to peak or 15 g - 10 Hz - 2000 Hz
<b>Mechanical shocks on 3 axes</b>	50 g - 11 ms - half sine
<b>Speed (m/s)</b>	10 max.