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Type designations	TR 10	TR 25 TRS 25	TR 50 TRS 50	TR 75 TRS 75	TR 100 TRS 100	with cable with plug
Electrical Data						
Defined electrical range	10	25	50	75	100	mm
Nominal resistance	1	1	5	5	5	kΩ
Resistance tolerance	20					±%
Independent linearity	0.25	0.2	0.15	0.1	0.075	±%
Repeatability	0.002					mm
Recommended operating wiper current	≤ 1					μA
Max. wiper current in case of malfunction	10					m
Max. permissible applied voltage	24	42	42	42	42	V
Effective temperature coefficient of the output-to-applied voltage ratio	typical 5					ppm/°K
Insulation resistance (500 VDC, 1 bar, 2 s)	≥ 10					MΩ
Dielectric strength (50 Hz, 2 s, 1 bar, 500 VAC)	≤ 100					μA
Mechanical Data						
Overall length (dimension A)	48	63	94.4	134.4	166	+1 mm
Mechanical stroke (dimension B)	15	30	55	80	105	±1.5 mm
Dimension C (at TR)	7	12	12	12	12	mm
Dimension D (at TR)	6	32	32	32	32	mm
Weight with cable	80	120	150	180	200	g
Weight with plug		74	100	128	150	g
Weight of the actuating shaft with coupling and wiper block	18	25	36	48	57	g
Operating force (horizontal)	≤ 5					N
Operating frequency max. (In critical applications mount the transducer with the gauging head upwards.)	20	18	14	11	10	Hz
Maximum permitted torque for fixing screws	140					Ncm

Included in delivery

2 fixing clamps Z 45 incl.
 4 screws M4x10,
 1 gauging head with hardened ball point

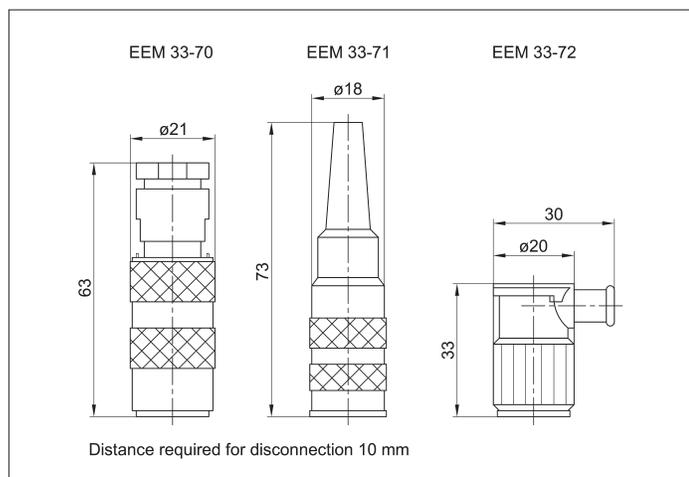
Recommended accessories

Plug type EEM 33-70, protection class IP 67
 Plug type EEM 33-71, protection class IP 40
 Plug type EEM 33-72, protection class IP 40
 1 roller head Z 50
 Process-controlled indicators MAP... with display,
 Signal conditioner MUP.../MUK... for standardized output signals

Important

All values given for this series – including linearity, lifetime, micro-linearity, resistance to external disturbances and temperature coefficient in voltage dividing mode – are quoted for the device operating with the wiper voltage driving an operational amplifier working as a voltage follower where virtually no load is applied to the wiper ($I_e \leq 1 \mu A$).

Environmental Data		
Temp. range	-30...+100	°C
Vibration	5...2000	Hz
	$A_{max} = 0.75$	mm
	$a_{max} = 20$	g
Shock	50	g
	11	ms
Life	> 100 x 10 ⁶	movements
Protection class	IP 40 (DIN 400 50 / IEC 529)	



Order designations

Type	Art. no.
TR 10	023260
TR 25	023261
TRS 25	023271
TR 50	023262
TRS 50	023272
TR 75	023263
TRS 75	023273
TR 100	023264
TRS 100	023274

Subject to changes

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