



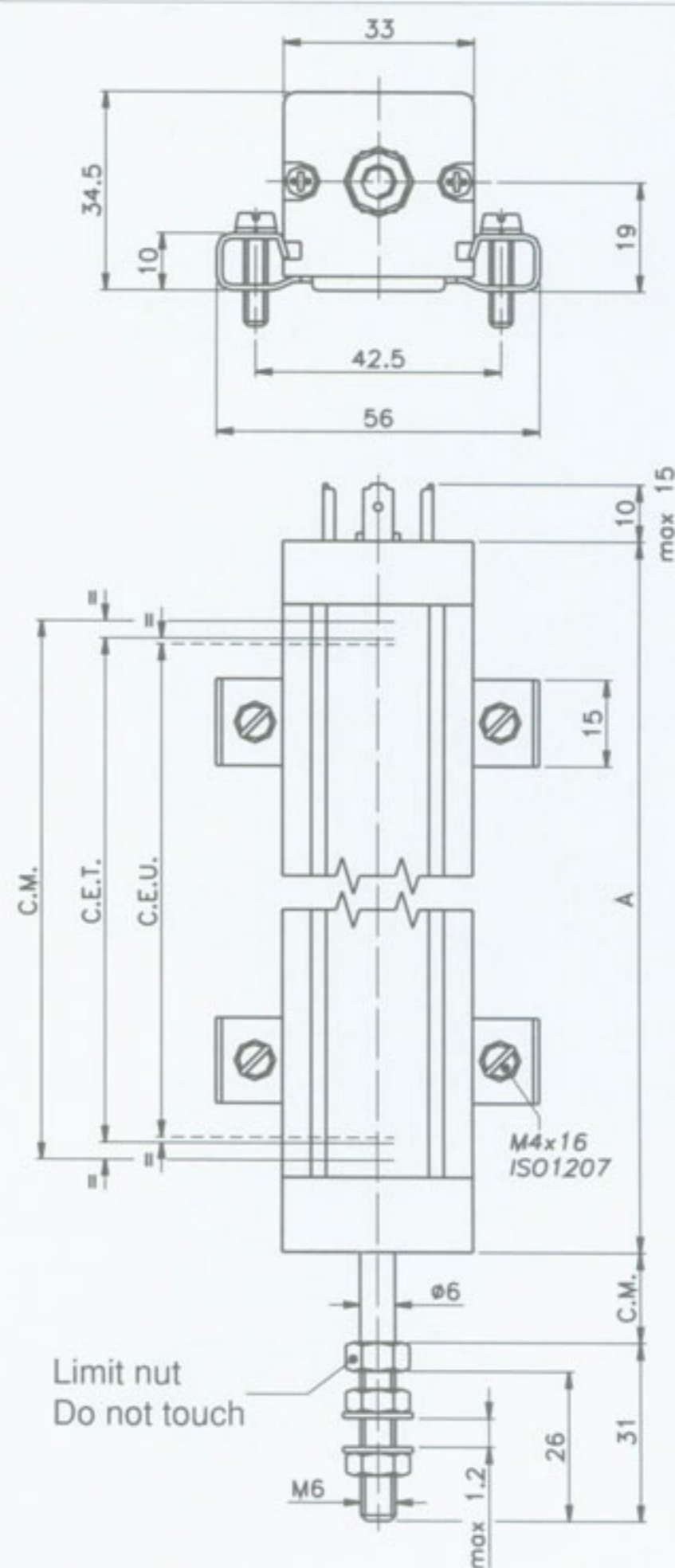
### Main features

- 50 to 900 mm stroke.
- Mechanical linkage using M6 thread
- Independent linearity  $\pm 0,05\%$
- Repetibility 0,01 mm.
- Infinite resolution
- No variation of electrical signal outside theoretical electrical stroke
- Displacement speed up to 5 m/s (optional 10m/s)
- Working temperature:  $-30...+100^{\circ}\text{C}$
- Electrical connections:  
 LT H 3 pole connector  
 LT M 4 pole connector to standard DIN43650 ISO4400  
 LT B 5 pole connector DIN43322  
 LT F 3 pole screened cable (1m length).
- Life duration:  $> 25 \times 10^6$  meters or  $> 100 \times 10^6$  operations whichever is the smaller (within C.E.U.)
- Grade of protection IP60 (optional IP65)
- Suitable for use in explosive environments with presence of gas (groups IIA, IIB, IIC) and combustible powders. Standards for simple device:  
 ATEX CEI EN 50020 2003 - paragraph 5.4 a

### TECHNICAL DATA

Useful electrical stroke (C.E.U.)	50/75/100/130/150/175/200/225/275/300/350/375/400/450/500/600/650/750/900
Independent linearity (within C.E.U.)	$\pm 0,05\%$
Displacement speed	Standard $\leq 5$ m/s (optional $\leq 10$ m/s)
Displacement force	$\leq 2$ N Version IP60 $\leq 10$ N Version IP65
Vibrations	5...2000Hz, $A_{max} = 0,75$ mm $a_{max.} = 20$ g
Shock	50 g, 11ms.
Operative acceleration	200 m/s <sup>2</sup> max (20g)
Tolerance on resistance	$\pm 20\%$
Recommended cursor current	$< 0,1 \mu\text{A}$
Maximum cursor current	10mA
Maximum applicable voltage	60V
Electrical isolation	$> 100\text{M}\Omega$ at 500V <sub>~</sub> , 1bar, 2s
Dielectric strength	$< 100 \mu\text{A}$ at 500V <sub>~</sub> , 50Hz, 2s, 1bar
Dissipation at 40°C (0W at 120°C)	3W
Actual Temperature Coefficient of the output voltage	$< 1,5\text{ppm}/^{\circ}\text{C}$
Working temperature	$-30...+100^{\circ}\text{C}$
Storage temperature	$-50...+120^{\circ}\text{C}$
Case material	Anodised aluminium Nylon 66 G25
Control rod material	Stainless steel AISI 303
Fixing	Brackets with variable longitudinal axis

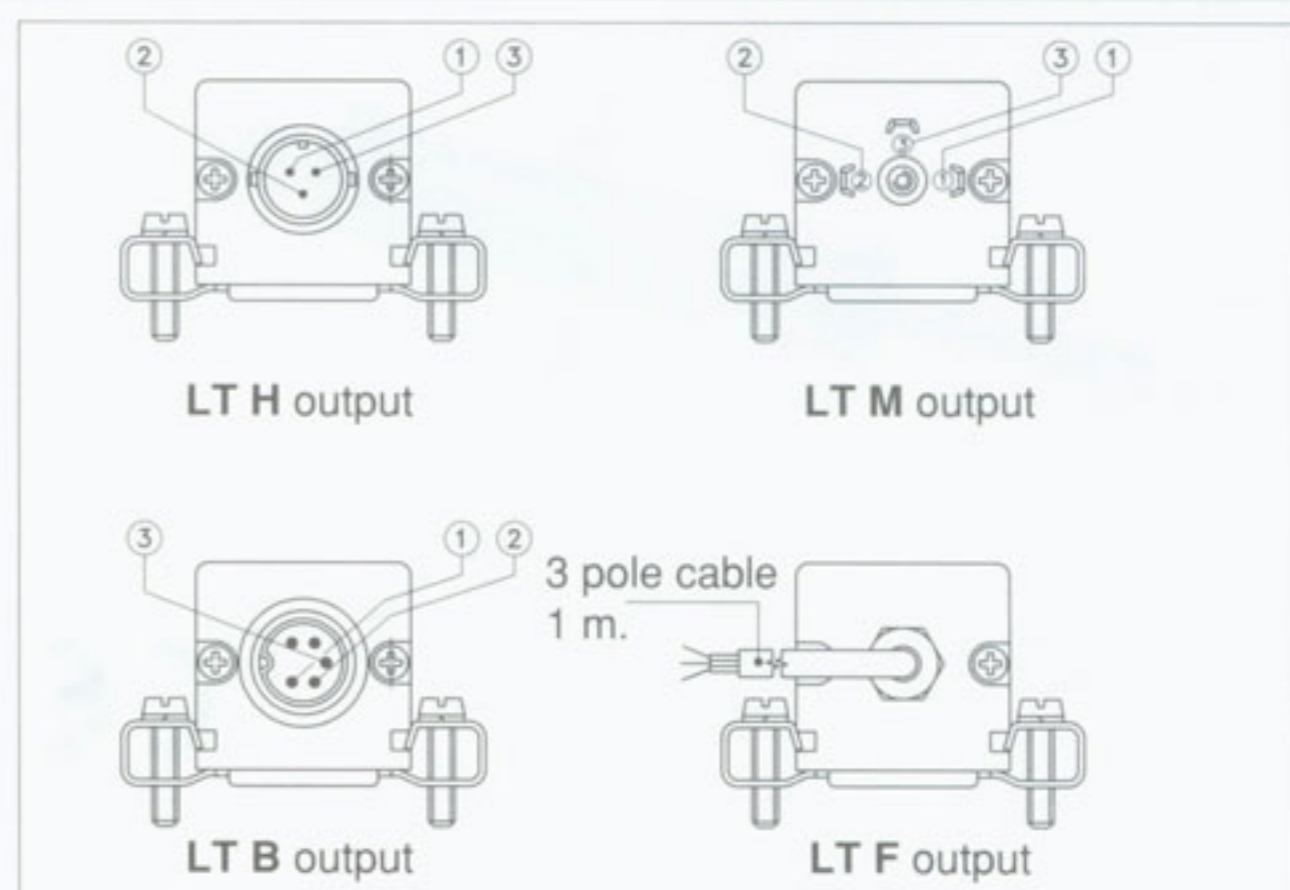
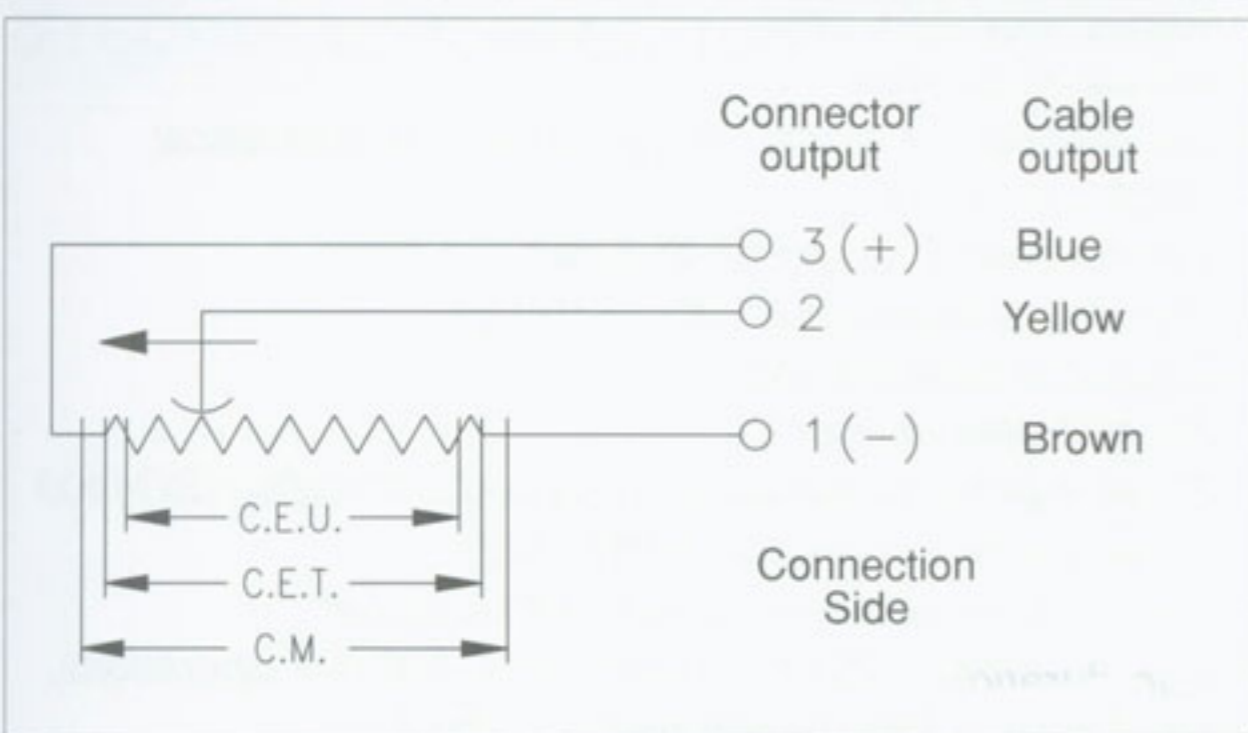
### MECHANICAL DIMENSIONS



# MECHANICAL / ELECTRICAL DATA

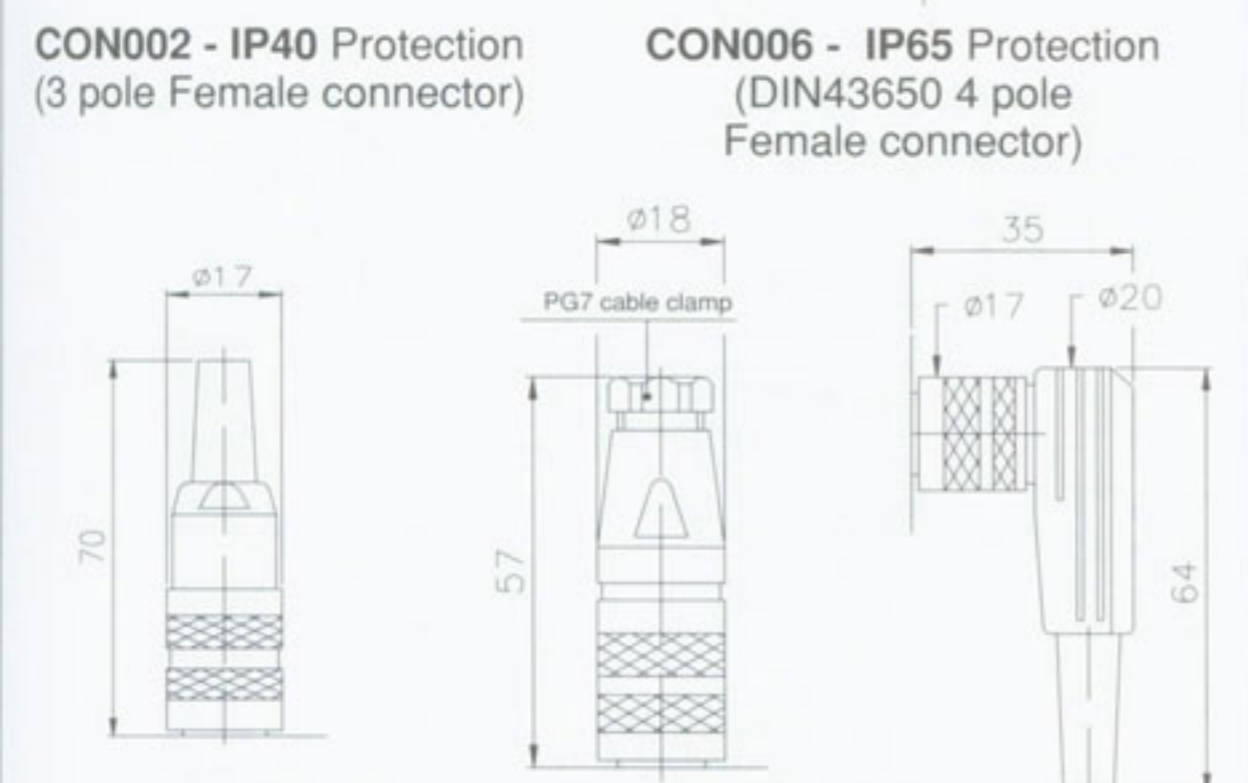
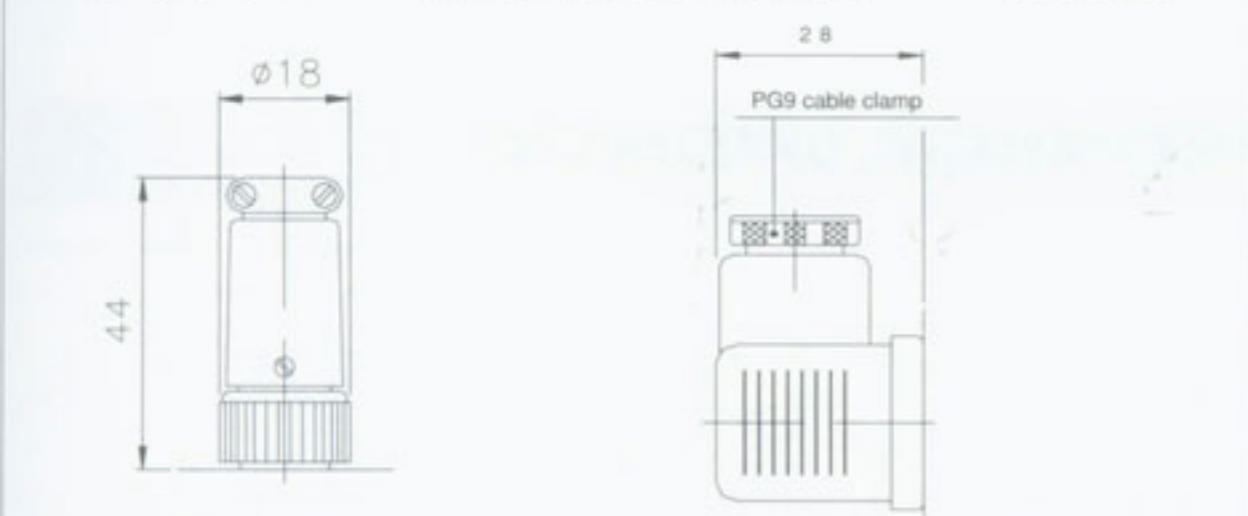
MODEL		50	75	100	130	150	175	200	225	275	300	350	375	400	450	500	600	650	750	900
Useful electrical stroke (C.E.U.) +3/-0	mm	50	75	100	130	150	175	200	225	275	300	350	375	400	450	500	600	650	750	900
Theoretical electrical stroke (C.E.T.) ±1	mm	C.E.U. + 3						C.E.U. + 4			355,6	380	406	457	508	609	660	762	914	
Resistance (C.E.T.)	kΩ	5						5			5	5	5	5	5	5	5	5	10	10
Mechanical stroke (C.M.)	mm	C.E.U. + 9						C.E.U. + 10			361	386	412	463	518	619	670	772	924	
Case length (A)	mm	C.E.U. + 62						C.E.U. + 63			414	439	465	516	571	672	723	825	977	

## ELECTRICAL CONNECTIONS

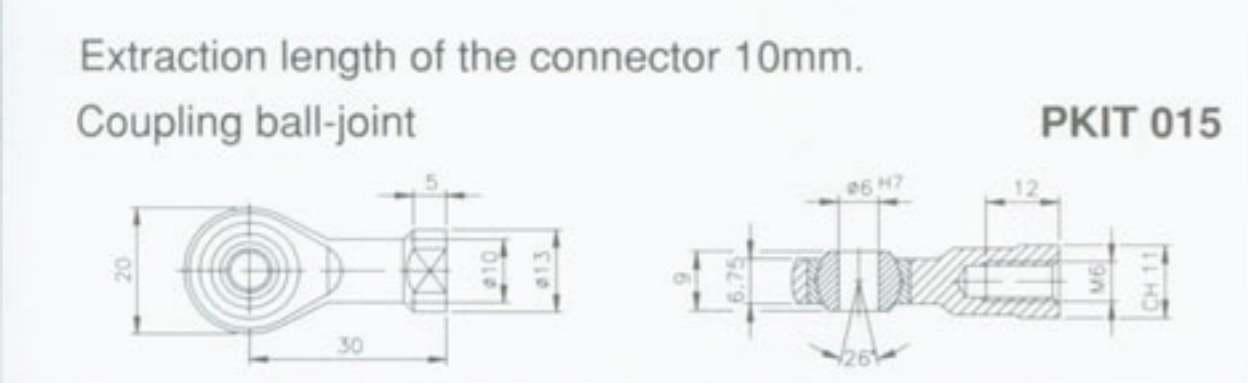


## ACCESSORIES

STANDARD ACCESSORIES	Code
Fixing kit for LT: 2 brackets, screws, grower	PKIT009



Extraction length of the connector 10mm.
Coupling ball-joint



## ORDER CODE

Displacement transducer	LT
3 pole connector output	H
4 pole connector output DIN43650 ISO4400	M
5 pole connector output DIN43322	B
3 pole PVC cable output 3x0,25 1m	F
Model	
Standard version IP60	S
Version IP65	P

If requested, it is possible to supply models with non-standard mechanical and/or electrical features

Example: **LT - M - 275 - S**  
 Displacement transducer model LT, 4 pole connector output DIN 43650 - ISO 4400, useful electrical stroke (C.E.U.) 275mm, standard version IP60.