

Principal characteristics

- The 3/4" cylindrical housing, plus the option of all fastening systems (brackets, joints or flange), makes the PZ34 series highly versatile for a wide range of applications.
- The optimized mechanical structure makes the product suitable for developing various special executions (contact Gefran customer service for details).
- Installation is simplified by the lack of electrical signal variation at output outside theoretical electrical stroke.
- Ideal for wood and glass working and finishing machines and for car test benches.

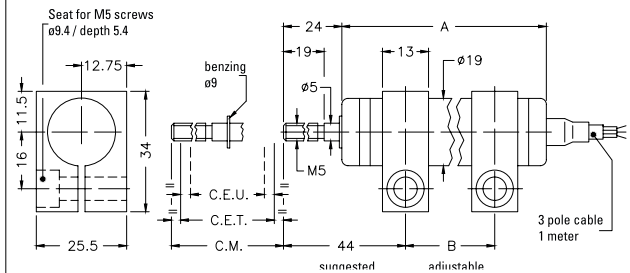


TECHNICAL DATA

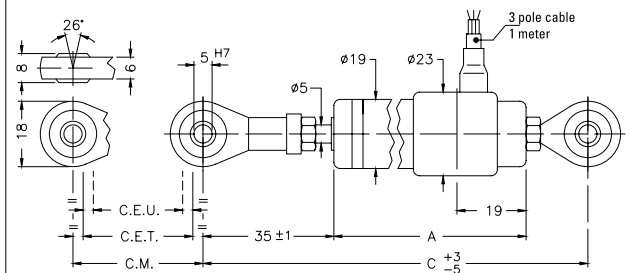
Useful electrical stroke (C.E.U.)	from 25 to 300 mm (for intermediate strokes see table "Electrical / Mechanical Data")
Resolution	infinite
Protection	IP60
Independent linearity (within C.E.U.)	see table
Displacement speed	≤ 10 m/s
Displacement force	≤ 0.5 N
Life	$>25 \times 10^6$ strokes, or 100×10^6 operations, whichever is less (within C.E.U.)
Vibrations	5...2000Hz, $A_{max} = 0,75$ mm $a_{max} = 20$ g
Shock	50 g, 11ms.
Tolerance on resistance	$\pm 20\%$
Recommended cursor current	$< 0,1 \mu A$
Maximum cursor current	10mA
Max. applicable voltage	see table
Electrical isolation	$>100M\Omega$ at 500V~, 1bar, 2s
Dielectric strength	$< 100 \mu A$ at 500V~, 50Hz, 2s, 1bar
Dissipation at 40°C (0W at 120°C)	see table
Actual Temperature Coefficient of the output voltage	< 5 ppm/°C typical
Working temperature	-30...+100°C
Storage temperature	-50...+120°C
Case material	Anodised aluminium Nylon 66 G 25
Control rod material	Stainless steel AISI 303
Fixing	Brackets, selfaligning ball-joints or flange
Important:	all the data reported in the catalogue linearity, lifetime, temperature coefficient are valid for a sensor utilization as a ratiometric device with a max current across the cursor $I_c \leq 0.1 \mu A$.

MECHANICAL DIMENSIONS

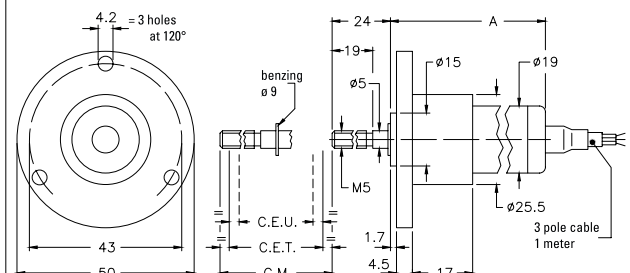
PZ34-S



PZ34-A



PZ34-F



MECHANICAL / ELECTRICAL DATA

MODEL		25	50	75	100	125	150	175	200	250	300	
Useful electrical stroke (C.E.U.) +1/-0	mm	25	50	75	100	125	150	175	200	250	300	
Theoretical electrical stroke (C.E.T.) ±1	mm	C.E.U. +1										
Resistance (C.E.T.)	kΩ	1	2	3	4	5	6	7	8	10	12	
Independent linearity (within C.E.U.)	± %	0,2	0,1	0,1	0,1	0,05	0,05	0,05	0,05	0,05	0,05	
Dissipation at 40°C (0W at 120°C)	W	0,8	1,6	2,6	3							
Maximum applicable voltage	V	20	40	60								
Mechanical stroke (C.M.)	mm	C.E.U. +5										
Case length (A)	mod. PZ34 - S	mm	83,5	108,5	133,5	158,5	183,5	208,5	233,5	258,5	308,5	358,5
	mod. PZ34 - A	mm	110	135	160	185	210	235	260	285	335	385
	mod. PZ34 - F	mm	83,5	108,5	133,5	158,5	183,5	208,5	233,5	258,5	308,5	358,5
Recom. distance between brackets (B)	mm	47	72	97	122	147	172	197	222	272	322	
Min. distance between ball-joints (C)	mm	163	188	213	238	263	288	313	338	388	438	
Weight	mod. PZ34 - S	g	90	105	130	160	175	190	205	215	245	275
	mod. PZ34 - A	g	110	125	150	180	195	210	225	235	260	285
	mod. PZ34 - F	g	100	115	140	170	185	200	215	225	255	280

ELECTRICAL CONNECTIONS

INSTALLATION INSTRUCTIONS

- Respect the indicated electrical connections (DO NOT use the transducer as a variable resistance)
- When calibrating the transducer, be careful to set the stroke so that the output does not drop below 1% or rise beyond 99% of the supply voltage.

ORDER CODE

Displacement transducer **PZ34**

Mounting by brackets	S
Mounting by selfaligning ball-joints	A
Mounting by flange	F

Model

0000X000X00

Color of plastic heads (green)	0
Cable length 1 mt	0
Cable length 2 mt	2
Cable length 3 mt	3
Other lengths on request
No certificate attached	0
Linearity curve to be attached	L

Ex.: **PZ34 - F - 125**
 Displacement transducer model PZ34, mounting by flange, useful electrical stroke (C.E.U.) 125mm.

ACCESSORIES

Code	
Mounting brackets for PZ34-S (2 pieces included in the confection)	STA075

GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior notice