

**TRANSDUCERS
(externally driven)**

A range of piezo transducers which require driving by an external sine or square wave source. High pitched sound output and low power consumption. Offers a choice of construction and size with the housed series extended to include high power devices.

UNHOUSED

Unhoused piezo elements consisting of the basic ceramic disc bonded to a thin brass plate. Choice of diameter with the largest size giving lowest pitch sound output. Overall thickness 0.45mm.

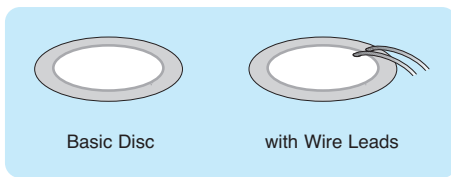
Two versions available:

Without feedback – offers wide tonal response.

With feedback – offers high sound output at resonance.

Without Feedback

Type PD27 also available with 40mm length wire leads.

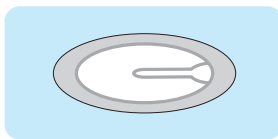


Specification	PD20	PD27/W	PD35	
Max. input voltage	30	30	30	Vp-p
Capacitance at 1kHz	13000	20000	40000	pF
Resonant frequency	6000	4000	2500	Hz
Resonant impedance (max.)	250	200	150	Ω

Size (dia.)	Type	Manf. Part No. & anglia Order Code
20mm	Basic disc	PD20
27mm	Basic disc	PD27
27mm	Wire leads	PD27W
35mm	Basic disc	PD35

With Feedback

Self oscillating type with additional feedback electrode.



Specification	PDF20	PDF27	PDF35	
Max. input voltage	30	30	30	Vp-p
Capacitance at 1kHz	11000	22000	38000	pF
Resonant frequency	6200	4300	2600	Hz
Resonant impedance (max.)	250	200	150	Ω

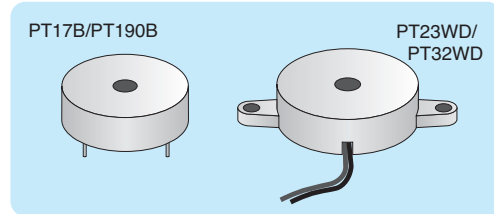
Size (dia.)	Type	Manf. Part No. & anglia Order Code
20mm	Basic disc	PDF20
27mm	Basic disc	PDF27
35mm	Basic disc	PDF35

HOUSED

Piezo elements housed in moulded cases. Option of low profile or high power.

Low Profile

Choice of body size and termination method. Body colour **Cream**. N.B. Device PT190B is sealed and washable.



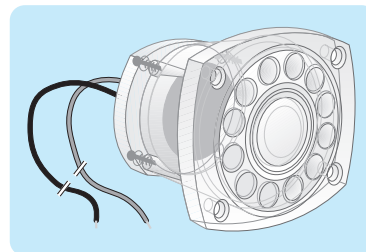
Specification	PT17B	PT190B	PT23WD	PT32WD	
Max. input voltage	30	30	30	30	Vp-p
Capacitance	8000	12000	14000	20000	pF
Sound output	92 at 30cm	90 at 30cm	90 at 10cm	100 at 30cm	dB
Resonant frequency	4500	4000	4000	4200	Hz
Oper. temp. range	-20, +60	-20, +110	-20, +60	-20, +60	°C

Dimensions (mm)	PT17B	PT190B	PT23WD	PT32WD
Body Dia.	17	22	23.4	30
H.	8	7	7	4.5
FC.	-	-	29	34
Pin pitch	10	10	-	-

Size (dia.)	Profile (height)	Type	Manf. Part No. & anglia Order Code
17mm	8mm	PCB pins	PT17B
22mm	7mm	PCB pins (washable)	PT190B
23.4mm	7mm	Wire leads	PT23WD
30mm	4.5mm	Wire leads	PT32WD

High Power

Compact, high power transducers for effective alarm purposes being particularly suited to bell box applications. Panel mounting with connections by wire leads. Body colour **Clear** with black available as an alternative.



Colour	Manf. Part No. & anglia Order Code
Clear	PT14WAC
Black	PT14WA

Specification

Max. input voltage	85	Vp-p
Capacitance	30000	pF
Sound output	115 at 100cm	dB
Resonant frequency	2600	Hz
Oper. temp. range	-20, +70	°C

Dimensions (mm)

Body D.	30
front face W.	58.4
front face H.	52.4
front face FC.	44 x 33
	4 hole