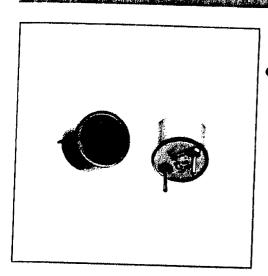
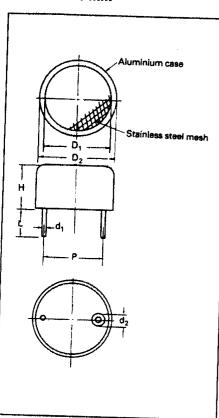
switches, liquid level meters, anti-collision devices and counters



Dimensions mm



Cont mumber							
Part number	D ₁	D ₂	Н	L	P	d, dia.	d₂ dia.
SCS401T SCM401R	16	13	12	10	10	2	1

T-Transmitter. R-Receiver.

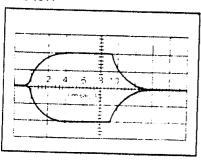
for moving objects.

Characteristics

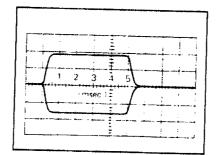
Item	25T	-25R	-40T	-40B	
Transmitting sensitivity (dB)'1	18	_	65.5		
Receiving sensitivity (dB) ⁻²	***	44		106.6	
Resonant frequency (transmitting) (kHz)" Frsv.	25		40 ± 1		
Resonant frequency (receiving) (kHz)*4 Frmv.		25 ± 0.5		40 ± 1	
Maximum input voltage (Vrms)	10		20		
Temperature range °C	—15 t	-15 to +65		-20 to +60	

- OdB= 1μ Bar/V/meter.
- OdB=1V/µBar, measured with a shunt resistance of 47 k Ω .
- Frequency where transmitting sensitivity is maximum.
- Frequency where receiving sensitivity is maximum.
- dB/V/μBar at centre frequency.
- OdB=2 x $10^{-4}\mu$ Bar at centre frequency.

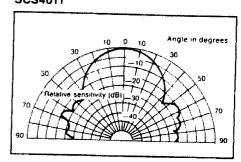
Pulse response (transmitting) SCS401T



Pulse response (receiving) SCM401R



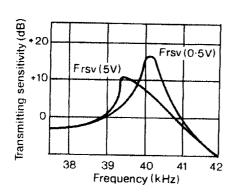
Directional radiation pattern SCS401T



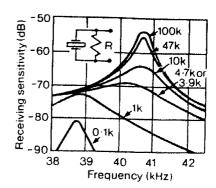
Radious Strucks



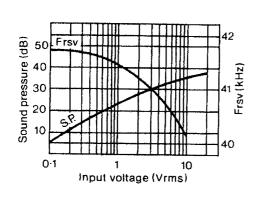
Frequency response (transmitting)



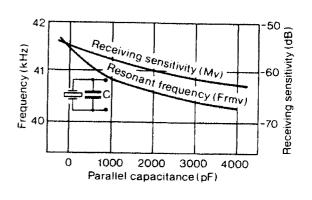
Frequency response (receiving) vs. shunt resistance



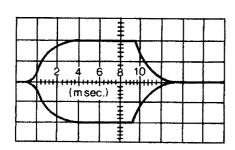
Sound pressure, resonant frequency vs. input voltage



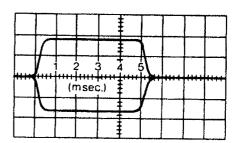
Effect of parallel capacitance



Pulse response (transmitting)

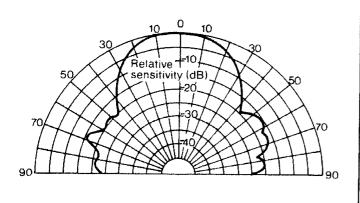


Pulse response (receiving)

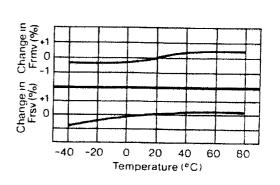


Directional radiation pattern





Temperature characteristics
TRANSMITTER & RECEIVER



. ryphivativiis

The following circuits show how the transducers may be used in remote control applications. Either of the transmitter circuits may be used with the receiver. The frequency of oscillation is adjusted by means of VR1 for maximum sensitivity. The CMOS circuit allows direct interfacing with logic circuitry. In the receiver VR2 is adjusted for maximum sensitivity.

Note: The relay energises when a signal is received from the transmitter.

