

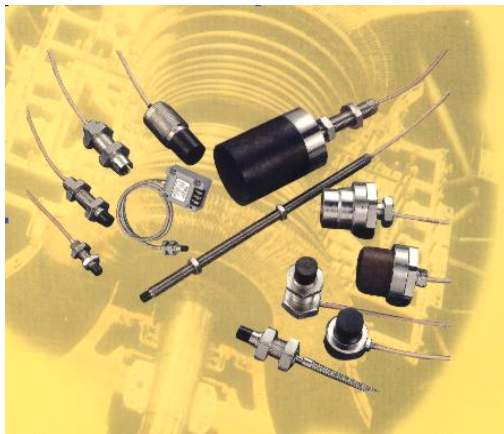


SZ-8 Series Proximity Transducer System manual

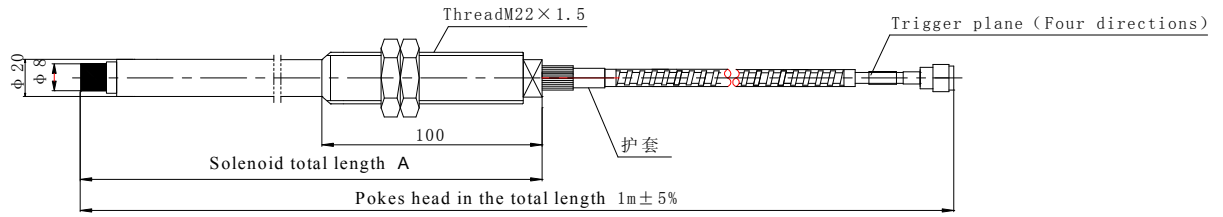
1. Specification:

Probe diameter(mm)	Φ5	Φ8	Φ11	Φ16	Φ18	Φ25	Φ32	Φ40
Linearity range(mm)	1	2	4	6	8	14.5	18	22
Sensitivity(v/mm)	16	8	4	2	2	1	0.8	0.6
Work temperature	probe(°C)	Normal type: 0-90, Wide temperature type: -50~175						
	extension cable(°C)	0-90						
	conditioner implement (°C)	0-75						
Linearity error(%FS)	±<1.5	±<2	±<2	±<2	±<2	±<2	±<2	±<2
Frequency response(KHz)	0~10							
Work power	-24VDC							
Output	-2~-24V or 4-20mA							
Transducer resistance	2-10Ω(commonly 3.06Ω)							
The max output voltage VDC	about-22VDC(when the power supply is -24VDC)							
Consumption(mA)	<12							
Installation thread(M)	M8×1	M10×1	M14×1.5	M20×1.5	M22×1.5	M30×1.5 M22×1.5	M36×1.5 M22×1.5	M22×1.5

Notice: These parameters are at 25°C, using the -24 VDC power supply and 45# steel which thickness is more than 5mm as to be measured.



2. Probe diagram



3. Wiring:

VT: -24VDC or 24VDC Power

OUT: Signal output (Voltage or 4-20mA)

COM: Common end

4. Sample Calibration Record of SZ-8

temperature: 25	℃	Power:	-24VDC
Material under test:	45# Steel		
Linear Range:	0.80~2.80mm	Linear Center:	1.80mm
Sensitivity:	8V/mm	Non-linearity:	0.13%
Center output:	-10.00V	Sensitivity Deviation:	0.13%
Minimum Displacement:	0.80mm		



Displacement(mm)	Output(V)	
0.80	-2.00	
0.90	-2.79	
1.00	-3.60	
1.10	-4.40	
1.20	-5.19	
1.30	-5.97	
1.40	-6.77	
1.50	-7.58	
1.60	-8.39	
1.70	-9.20	
1.80	-10.00	
1.90	-10.80	
2.00	-11.61	
2.10	-12.42	
2.20	-13.24	
2.30	-14.04	
2.40	-14.85	
2.50	-15.64	
2.60	-16.42	
2.70	-17.22	
2.80	-18.00	

