EST380S Thin-Film Pressure Transducer

- ✓ Accuracy: ±0.2%F. S |: ±0.5%F. S
- ✓ Pressure Type: Gauge/Absolute/Vacuum
- ✓ Range: 0~1Mpa~300Mpa
- ✓ Sensing: Thin-Film
- ✓ Stability: ±0.1%F. S
- ✓ All-Welded Stainless-Steel
- ✓ Temperature: -40~125℃;-40~300℃

Applications

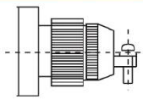
Aviation | Spaceflight | Aerospace | Airworthy | Engine Detection | Automatic Control & Detecting System | Hydraulic Watercraft | Diesel Engine

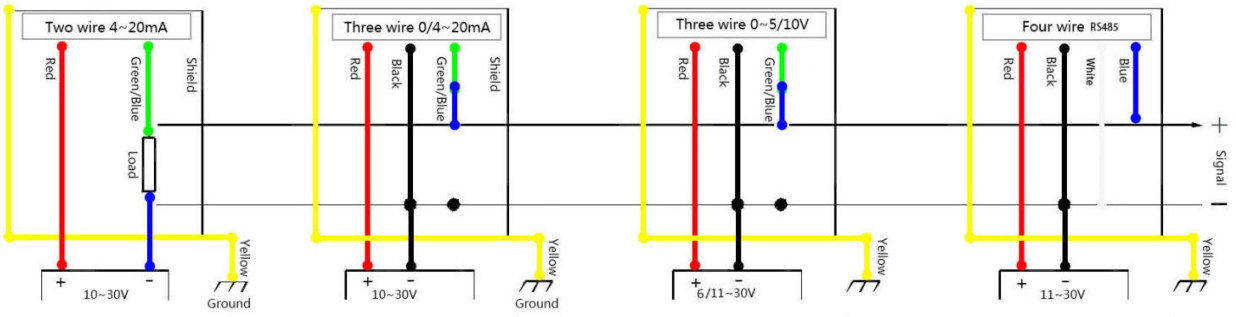
Product Introduction

At Eastsensor we take great pride in our process measurement and control products, EST380S Thin-Film can be used in the dynamic and demanding environment of the Aerospace and Aviation industry.

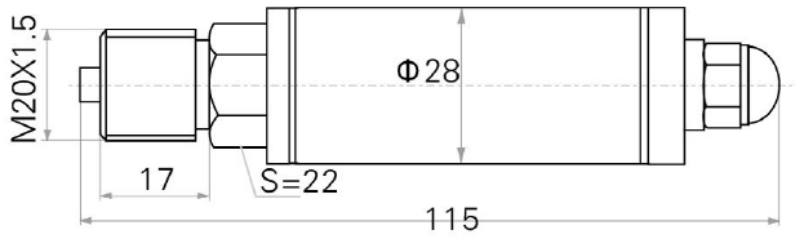
EST380S adopts Eastsensor's thin film technology which makes this premium performance possible. The strain gages are sputter-deposited, forming a molecular bond with the substrate. There is virtually no shift, drift, or creep to cause the transducer's calibration to change.

Electrical Connections and Dimensional Drawings

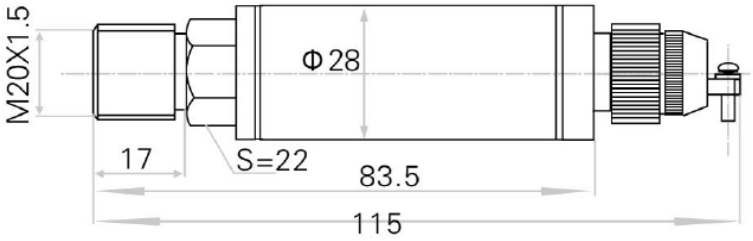
Water-Proof Cable Outlet		MS Mating Connector	
	U+ / I+ = Red		U+ / I+ = B
	U- / I- = Black		U- / I- = A
	S+ = Green / Blue		S+ = C
	Shield = Housing / Yellow		Shield = Housing



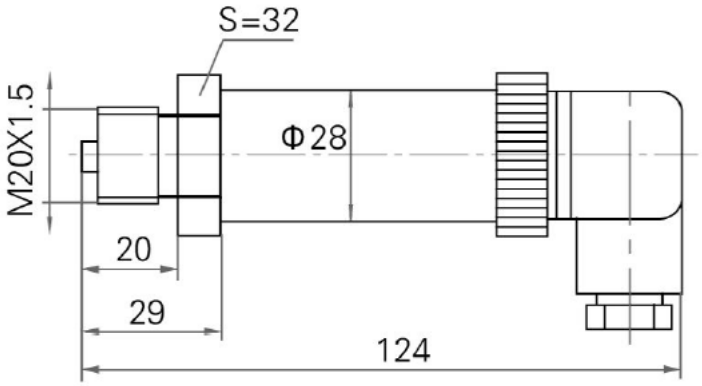
Water-Proof Cable Outlet Drawing



MS Mating Connector Drawing



HSM Connector Drawing



Specifications

Measuring Range	-0.1Mpa~0MPa-300Mpa	Medium compatibility	Corrosive medium compatible with 17-4PH; 1Cr18Ni9Ti
Overload pressure	2 times of Rated Pressure 6 times of Rated Pressure (Optional)	Insulation	>500MΩ@250Vdc
Medium	Air/Gas/Liquid	Electric Strength	500V@60second
Accuracy	±0.1%F.S;±0.2%F.S; ±0.5%F.S	Electrical Connections	HSM. DIN4365, IP65/ MS Mating Connector, IP67
Stability	0.25%F.S/Y, 0.4%F.S/Ymax	Process connection	M20x1.5; M14x1.5; NPT½; NPT¼; BSP ½": BSP ¼":
Working temperature	-40～85℃; -40～125℃; -40～150℃; -40～200℃; -40～300℃;	Response Time	10ms
Ex-Proof	ExiaIICT6	EMC	EMI：EN50081-1/-2；EMS：EN50082-2

Electrical parameters	Two wire	Three wire		
Output Signal	4~20mA	0/1~5Vdc	0/1~10V	RS485(Modbus)
Power supply	10~30Vdc	6~24Vdc/10~36Vdc	11~30Vdc/20~36Vdc	
Load resistance	(U-10)/0.02(Ω)	＞100K Ω		

1MPa=10bar; 1bar≈14.5PSI; 1PSI=6.8965kPa; 1kgf/cm2=1atm; 1atm≈98kPa

Ordering Procedure

EST	Thin-Film Pressure Transmitter

Code	Model
380S	Universal
380S-N	High Overload Performance (1000%/RP) for Aerospace Aviation
380S-C	Ultralow Temperature for Cryogenic (-196℃-85℃)

Cod	Span
1	-0.1-150MPa
2	1-300Mpa

Code	Output Type
A	4~20mA
V	0~5V
V1	0~10V
V05	1~5V
V2	1~10V
VR	RS486 Modbus

Code	Precision
0.1	±0.1%F.S
0.2	±0.2%F.S
0.5	±0.5%F.S

Code	Power Supply
DC12	12Vdc
DC24	12~36Vdc

Code	Temperature
T1	-40～85℃
T2	-40～125℃
T3	-40～150℃
T4	-40～200℃
T5	-40～300℃
T6	-196~85℃

Code	Process connection
M	M20 x 1.5
M14	M14 x 1.5
G2	G1/2
G4	G1/4
N2	NPT1/2
N4	NPT1/4

Co	Electrical Connections
M	MS Mating Connector
C	Waterproof Cable Connection
H	HSM

Code	Cable length

Code	Packing
Bb	Bubble bag
Foa	Plastics

EST	380S-N	2	A	0.5	DC12	T4	M	M	2	Bb