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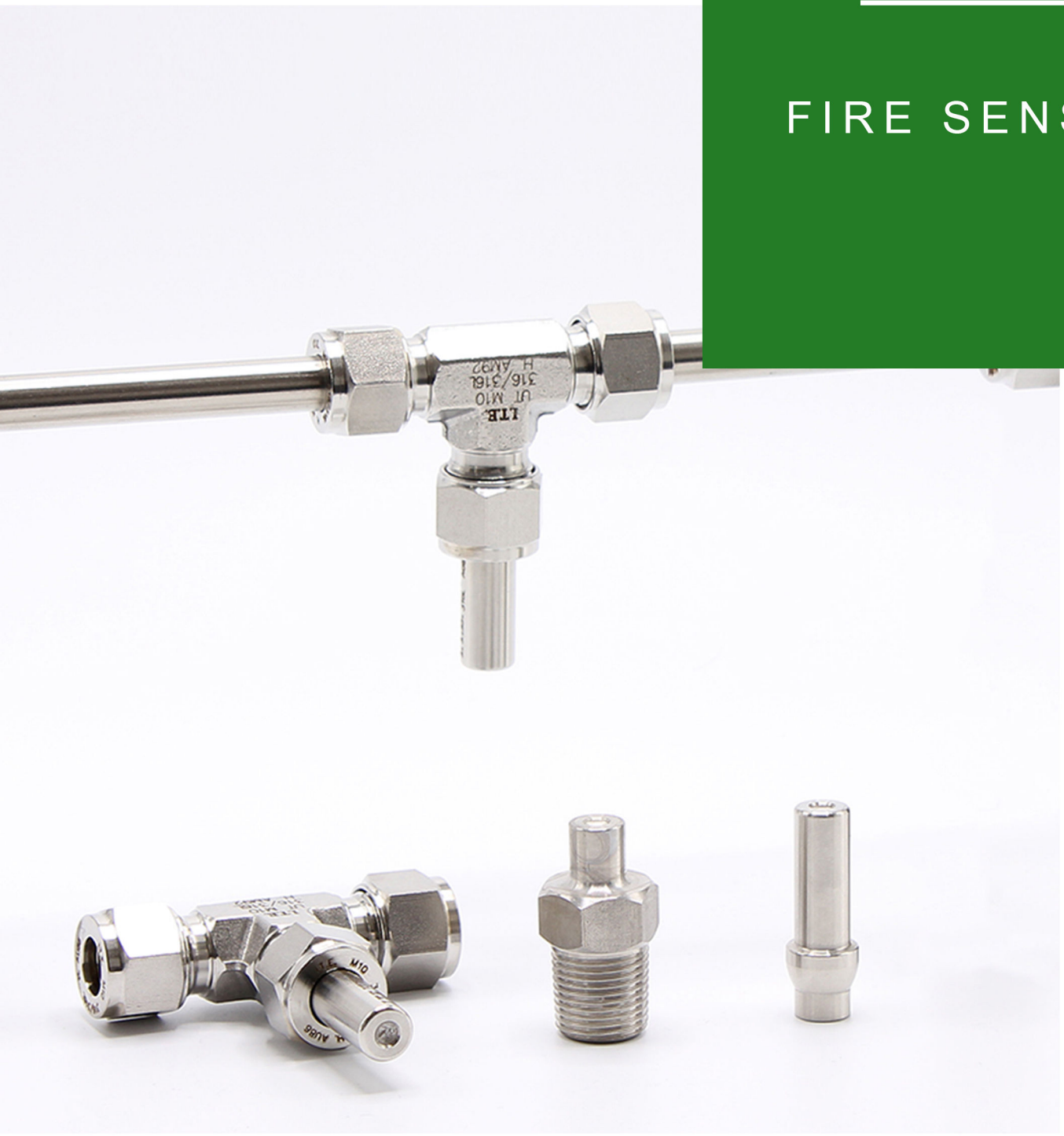
FIRE SENSOR



I.T.E.
INDUSTRIAL TECHNICAL EQUIPMENT

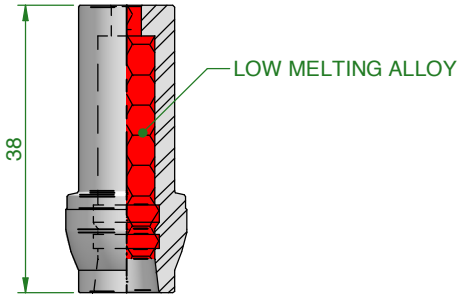
CONTENTS

FIRE SENSOR

I.T.E. fire sensor fuses are utilized in the pneumatic fire detection systems.

TFC

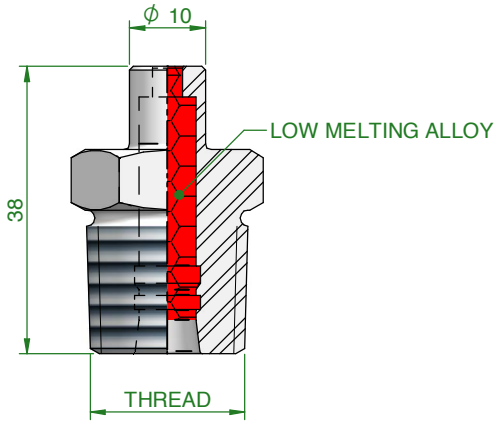
Assembling to a compression fitting



MODEL	Ø O.D. TUBE	MELTING POINT
TFC	10	70° ÷ 74° C
	10	96° ÷ 100° C
	10	135° ÷139° C
	3/8	70° ÷ 74° C
	3/8	96° ÷ 100° C
	3/8	135° ÷ 139° C

TFF

Threaded connections NPT-M ANSI B1.20.1



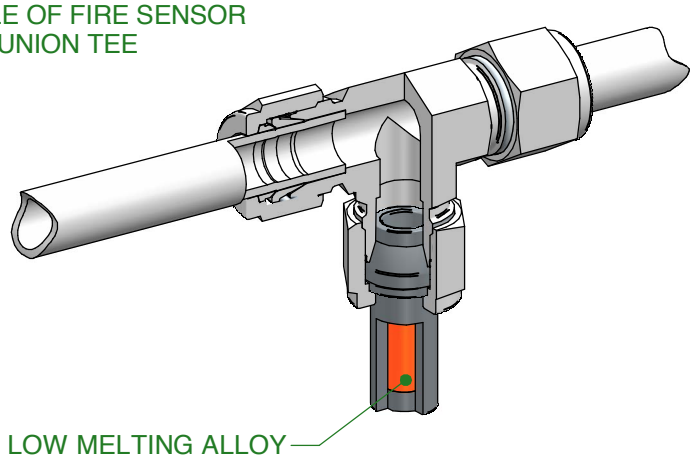
MODEL	THREAD NPT	MELTING POINT
TFF	3/8”	70° ÷ 74° C
	3/8”	96° ÷ 100° C
	3/8”	135° ÷ 139° C
	1/2”	70° ÷ 74° C
	1/2”	96° ÷ 100° C
	1/2”	135° ÷ 139° C

Using the fire sensors we can realise a valid fire detection system, of easy installation, free from any maintenance and of the maximum safety. The fuse element has constituted by a low melting alloy containing bismuth/indio, tin and lead having the following main characteristics.
The low melting alloys used in our Fire Sensor are not carcinogens and mutagens (no Cadmium)

FEATURES			
Melt point	70 - 74 °C	96 - 100°C	135 - 139°C
Specific w eight	9.67 g/ cm3	9.85 g/cm3	8.58 g/cm3
Thermic conductivity	0.043 Cal/s cm°C	0.030 Cal/s cm°C	0.044 Cal/s cm°C
Yield strenght	0.70 ÷ 1.16 Kg/mm2	0.88 ÷ 1.94 Kg/mm2	3.27 ÷ 4.30 Kg/mm2
Tensil strenght	1.88 ÷ 2.66 Kg/mm2	2.08 ÷ 3.46 Kg/mm2	6.13 ÷ 6.35 Kg/mm2
Hardness (φ 2 mm / 4 Kg)	13 ÷ 14.5 HB	13.5 ÷ 15.5 HB	23 ÷ 23 HB

TFC MOUNTING INSTRUCTION

MOUNTING EXAMPLE OF FIRE SENSOR
ON COMPRESSION UNION TEE



This type of fire sensor doesn't require particular instructions for the assembling :

1) Insert the fire sensor in compression fitting (generally a Tee).
2) Screw entirely the bolt by hand until where possible.
3) Block it completely using a key.

For possible future substitutions of the fire sensor and in order to assure the maximum number of substitution without changing the body of compression fitting it is recommended to proceed according the following instructions:

4) Replace the fire sensor out of service.
5) Reassembling them as specified in points 1-2-3 above.

HOW TO ORDER

TFC - S - 2 - 70

MODEL
DESIGNATOR
TFC

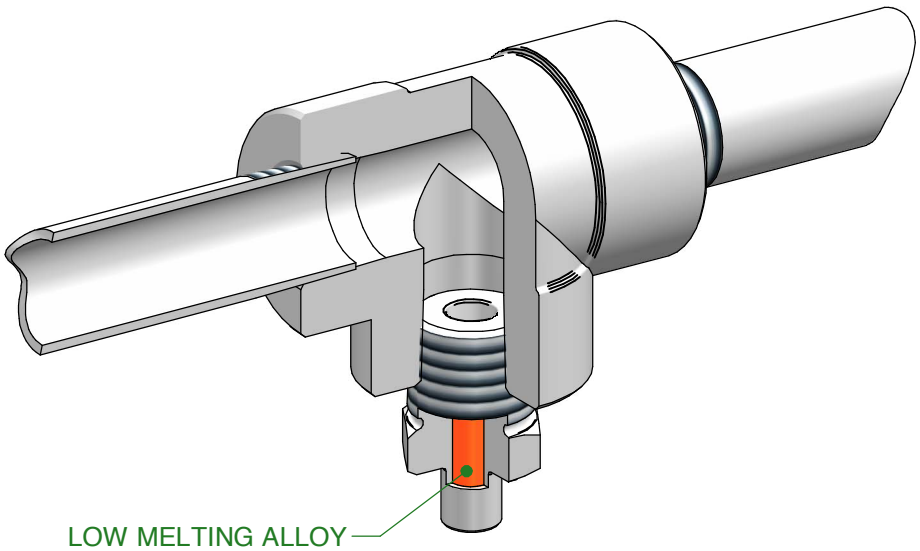
MATERIAL	
CODE	*TYPE*
S	AISI 316L
H	6Mo
For other material please contac ITE sales dept.	

THREAD DIMENSIONS	
CODE	*O.D. TUBE*
1	10mm
2	3/8"

MELT POINT	
CODE	*TEMP.*
70	70°C
96	96°C
137	137°C

TFF MOUNTING INSTRUCTION

MOUNTING EXAMPLE OF
FIRE SENSOR ON UNION TEE



Easier is the assembling of this type of fire sensor, which can be installed in any threaded fittings.

1) Assure a proper seal making an inspection of the thread that have to be intact.

2) Garnish the thread and screw it first by hand and then by key.

Above assembling method guarantees a perfect seal and an optimal protection against possible seize in dismantle phase of the fire sensor out of service.

HOW TO ORDER

TFF - S - 2 - N - 70

MODEL
DESIGNATOR
TFF

MATERIAL	
CODE	*TYPE*
S	AISI 316L
H	6Mo
For other material please contac ITE sales dept.	

THREAD DIMENSIONS	
CODE	*DIAM.*
1	1/2"
2	3/8"

THREAD TYPE	
CODE	*TYPE*
N	NPT

MELT POINT	
CODE	*TEMP.*
70	70°C
96	96°C
137	137°C