Tfx-178

- **Conductive type HDFS®**
- **Operating temperature 250°C**
- **Non opening in cavity**
- **Total height 30mm**
- **Temperature measurement**

o Fast deployment
o Stronger

DESCRIPTION

The flow deviation sensors are especially well suited to the thermal events which occur within the materials which are being processed.
One of their principal characteristics is that they do not need any opening in the moulding cavity: they are dismountable at room temperature. No peculiar precision is required for implementation, contrary to the traditional pressure sensors.
These sensors deliver information that is proportional to the heat transfers, which occurs during exothermic or endothermic phenomena, as the material is being processed.
These sensors are able to detect the structural changes of the material.

CONNECTOR

	C	D			
Tfx-178	 2p	 2p			
	E	**F**	**N**	**P**	**Y**
Tfx-178-T	 3p	 3p			

Technical information in product note n°TFX-002-B-e n

PRODUCT NUMBER

Product 178. [ ][ ][ ].[ ][ ][ ]

Housing	**Stainless steel**	**R**
	Aluminium	A

Type	Flux	F
	Flux and temperature	**S**

A	Fine heat flux	Cable type
E	**Standard sensor**	

010	**1m**	Cable length
	Other on demand, in dm	

C	LEMO 2p straight plug	Connector
D	LEMO 2p fixed socket	
E	LEMO 3p straight plug	
F	**LEMO 3p fixed socket**	
N	Dual Standard male	
P	Porcelain terminal 4p	

Mounting tool	178.00

To order separately

IDENTITY STICK

Product	Front side		Rear side
	Tfx-178-F	Tfx-178-S	
Sensitivity Type – S/N	±xx nV/W/m^2 178-F yyyyyy	±xx nV/W/m^2 178-S yyyyy	**HT**

THERMAL CHARACTERISTICS

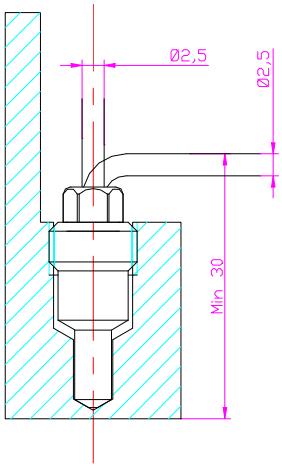
Symbol	Parameter	Min	Typ	Max	Units
T_{nom}	Operating temperature		250		℃
T_{pulse}	Maximum temperature		300		℃
ϕ	Heat flow level	±10		±100k	W/m^2

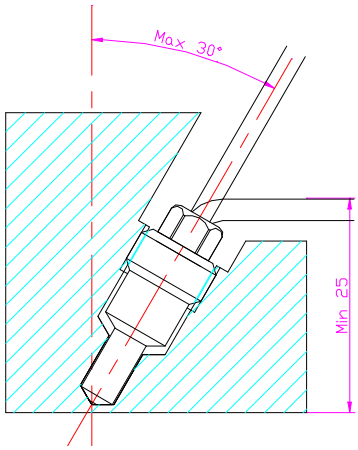
ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Min	Typ	Max	Units
R_{in}	Differential input resistance		3		Ω
V_{noise}	RMS measurement noise		0.1		μV_{RMS}
Sensi	Sensitivity		+10		$nV/W/m^2$
BW	Bandwidth		1		Hz
V_{isol}	Output voltage		500		Vac
V_{nom}	Breakdown voltage		±20		mV

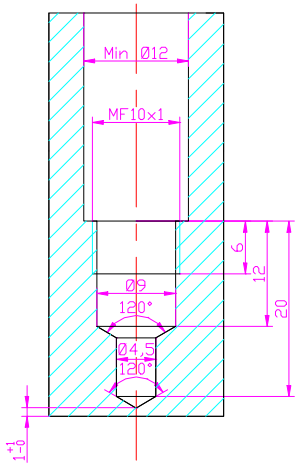
Thermocouple type (only Tfx-178-S): T

CROWDING



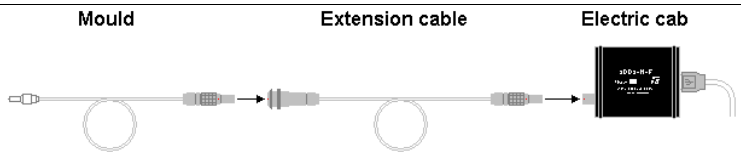
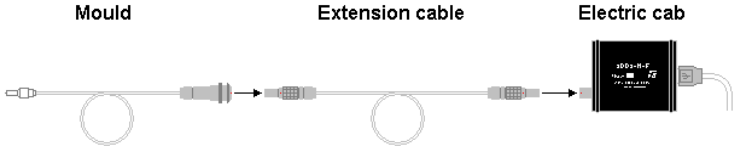


FIXING



Fixing with a 6mm spanner, with a split.
Sensor axle can make a maximal angle of 30°with no rmal axle of cavity face.

SENSOR CABLING

Industry, small mould – Sensor with straight plug – Extension M/F	
Industry, large mould – Sensor with fixed socket – Extension M/M	

– Extension length: 4m, other length on demand (max. 10m)
– Order accessories separately

CONTENTS

– 1 sensor

TFX SA reserves the right to change the circuitry and specifications without notice at any time.