



C E R T I F I C A T E

Certificate no. 18-SIL-0010028-05-TIC

WE HEREBY CERTIFY THAT

Product description MELT PRESSURE SENSORS
Series IMPACT ILI-x-x-x-xxxx-x-x-x-P-xxxxxxxxxxxx
Manufacturer GEFTRAN S.p.A.
Via Sebina 74 – 25050 Provaglio d'Iseo BS

IS IN COMPLIANCE WITH THE REQUIREMENTS OF THE STANDARDS

**IEC/EN 62061:2005 + A1:2013 + A2:2015 +
EN 62061 / EC:2010
IEC 61508:2010
IEC 61511-1:2016 + A1:2017, IEC 61511-2/3:2016
(as far as applicable)
EN ISO 13849-1:2015
EN ISO 13849-2:2012**

AS RESULT OF THE ASSESSMENT ACCORDING TO THE PROVISION
SET OUT IN THE ABOVE-MENTIONED STANDARDS

Report no. RC-0120-SIL-TIC-PC-0010028-18-02

Expiry date 19.01.2023

Note This certificate is issued upon the request of the manufacturer as voluntary certification; it does not include the production surveillance.

This certificate does not allow the manufacturer to use the safety mark of TÜV INTERCERT.



Reggio Emilia, 20.01.2020

Dipl. Ing. Feridoon Sergizzarea
TÜV INTERCERT Certification Body



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ANNEX to Certificate no. 18-SIL-0010028-05-TIC

Safety functions	1. Analog output (current or voltage) 2. Relay output (de-energise to trip)	
Mode of operation	High Demand Mode	
Results		
Parameter	Value	Measuring unit
Architecture	1001 (1002 for relay output block)	--
HFT	0 (1 for relay output block)	--
Category	2 (3 for relay output block)	--
β, β_D factors	0,02	--
λ_{DD}		
Analog output	4,61E-07	1/h
Relay output	4,44E-07	1/h
λ_{DU}		
Analog output	6,73E-08	1/h
Relay output	3,72E-08	1/h
DCavg		
Analog output	90	%
Relay output	90	%
SFF		
Analog output	94,1	%
Relay output	96,7	%
MTTF _d		
Analog output	216	years
Relay output	237	years
PFH		
Analog output	6,73E-08	1/h
Relay output	3,72E-08	1/h
Systematic Capability	2	--
SILCL (IEC/EN 62061)	2	--
SIL (IEC/EN 61508)	2	--
PL (EN ISO 13849)	d	--
The product can be declared as compliant to:	IEC/EN 62061 SILCL 2, IEC/EN 61508 SIL 2, EN ISO 13849-1, EN ISO 13849-2, PL d	

Remarks:

- These results must be considered in combination with SIL/PL and λ_D values of other devices of a safety-related system in order to determine suitability for a specific SIL/PL
- The results are "worst case" results, considering all the mechanical versions
- The results for analog output are conservative "worst case" results for voltage or current output
- The results of DCavg are rounded to 90%, in compliance with EN ISO 13849-1, Table 5, Note 2

END OF CERTIFICATE

Reggio Emilia, 20.01.2020

Dipl. Ing. Feridoon Sergizzarea

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