## ISOFACETM

## Galvanically Isolated 8-Channel Digital Input IC

The ISO1I81xT digital input product family is a intelligent system solution offering robust galvanic isolation between the $\mu \mathrm{C}$ on the "control side" and the 24 V factory floor environment, frequently referred to as the "process side".

## Industrial Control Applications:

- Programmable Logic Controllers (PLC)
- Distributed Control Systems
- Industrial PCs
- General Control Equipment
- Sensor Input Modules

Benefits of the integrated galvanic isolation of the IS01I81xT digital input product family:

- Temperature range up to $+135^{\circ} \mathrm{C} \mathrm{t}_{\text {junction }}$
$\rightarrow$ Ideal for highly compact industrial applications
- Low temperature drift
$\rightarrow$ Robust over operational life-time
- Superior EMI robustness
$\rightarrow$ Secure data transfer under very harsh conditions

| Product Overview |  | IS01I811T | IS011813T |
| :---: | :---: | :---: | :---: |
| Input Characteristics | IEC Type: I, II, III | $\checkmark$ | $\checkmark$ |
|  | Input status LED | $\checkmark$ | $\checkmark$ |
|  | Max sampling frequency | 125 kHz | 500 kHz |
|  | Deglitching filter setting | Hard wired | Software, individual per channel |
|  | Synchronous data acquisition |  | $\checkmark$ |
| $\mu \mathrm{C}$ Interface | $3.3 \mathrm{~V} / 5 \mathrm{~V}$ | $\checkmark$ | $\checkmark$ |
|  | Serial \& parallel | $\checkmark$ | $\checkmark$ |
| Safety Features | 500 V Isolation voltage | $\checkmark$ | $\checkmark$ |
| Diagnostics | Wire break, channel-specific |  | $\checkmark$ |
|  | $\mathrm{V}_{\mathrm{bb}}$ undervoltage |  | $\checkmark$ |
| Support for external $\mathrm{V}_{\mathrm{bb}}$ supply |  |  | $\checkmark$ |
| Package TSSOP-48 (8x12.5mm) |  | $\checkmark$ | $\checkmark$ |
| Infineon ordering code |  | SP000876494 | SP000876504 |

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## ISOFACE ${ }^{\text {TM }}$

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Typical Application


Evaluation Board

Ordering Code
I811T-Board: SP000918168
I813T-Board: SP000918170


## www.infineon.com/isoface

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