TURCK

Your Global Automation Partner

IMX
Interface Series

Products are linked with further information.

Interface Series IMX

Interface devices are the true all-rounders in the control cabinet. They combine protecting, isolating, converting and supply tasks in the smallest space. A further major challenge are the requirements in standards. In this environment, the users expect reliability, precision and safety.

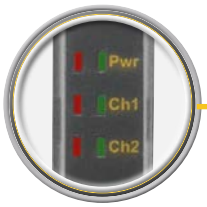
Turck sets a new standard in the field of Ex-safety-barriers and Ex-analog-signal isolators with the IMX interface device series. Fast and precise signal processing in the smallest space, reliable supply of the connected instrumentation and long maintenance-free operation are the most important criteria in the selection.

The IMX series sets standards in many respects. The devices were developed according to the current norms and standards, and are the latest interface platform on the market. You therefore benefit from investment security and availability for a long period of time. The devices of the IMX series are designed for processing of switching, NAMUR, frequency, current, voltage and resistance signals.

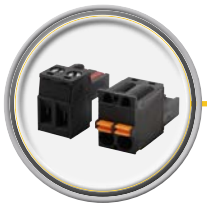
50 years Interface technology

Reliable
Turck builds on many years of experience in the field of interface technology. The IMX series combines this experience with state-of-the-art technology. We offer an excellent basis for securing your investments, also in the long term and under changed market conditions.

Global
Turck is a globally operating company, thus fulfilling requirements of international markets. We offer worldwide approvals, and thus ensure the applicability of devices in different systems.



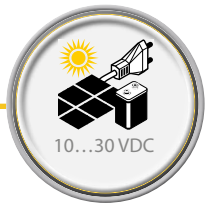
Clear signalling acc. to NE44



Screw or spring-loaded terminals

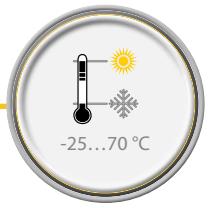
- Width 12.5 mm
- 4 terminal strips
- Up to 66 % space gain

- Simple operation
- DIP switch
- Parameterizable via FDT/DTM

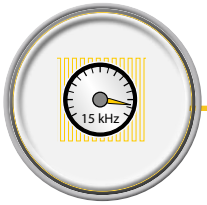


Wide power supply range

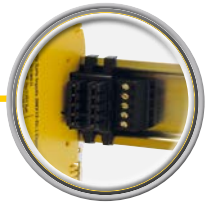
Best Total Performance @ 40 °C for analog signal isolators



Wide temperature range



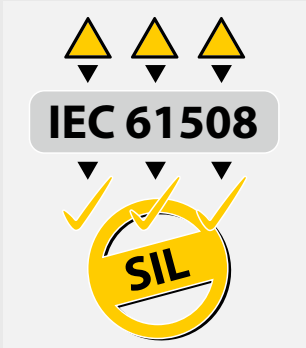
Fastest isolating switching amplifier up to 15 kHz



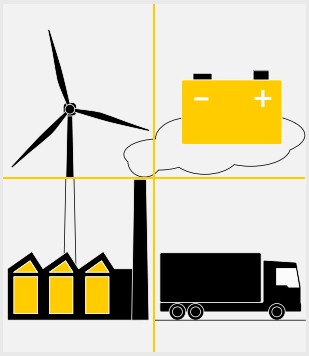
Power rail + Collective fault signal optional

Independent of mounting position -25…+70 °C

Use in zone 2



Safe
Safety first – is a maxim at Turck. With the IMX series, we want to contribute to your system security. All devices have been developed and manufactured in accordance with the requirements of the IEC61508 and can be used in safety circuits up to SIL2.



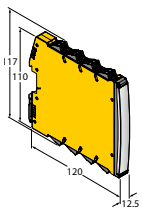
Flexible
No application is similar to the other. This provides a high degree of adaptability of the instrumentation. With diverse functionality and a wide voltage range of 10 to 30 VDC, the IMX series is tailored to these requirements.

IMX – Types and Features

ID	Type code	Description
100028612	IMX18-DI03-4S-5R-S/24VDC	4-channel isolating switching amplifier with relay output, splitter function or alarm output (relay)
100030007	IMX18-DI03-4S-4T1R-S/24VDC	4-channel isolating switching amplifier with transistor output, splitter function or alarm output (relay)
7580000	IMX12-DI03-1S-1NAM1R-0/24VDC	1-channel isolating switching amplifier with relay output, NAMUR-Repeater
7580004	IMX12-DI03-1S-1NAM1T-0/24VDC	1-channel isolating switching amplifier with transistor output, NAMUR-Repeater
7580008	IMX12-DI03-1S-2R-S/24VDC	1-channel isolating switching amplifier with relay output, splitter function or alarm output
7580012	IMX12-DI03-1S-2T-S/24VDC	1-channel isolating switching amplifier with transistor output, splitter function or alarm output
7580016	IMX12-DI01-2S-2R-0/24VDC	2-channel isolating switching amplifier with relay output
7580020	IMX12-DI01-2S-2T-0/24VDC	2-channel isolating switching amplifier with transistor output
7580024	IMX12-DI01-2S-2PP-0/24VDC	2-channel isolating switching amplifier with push-pull output stage
7580101	IMX12-DO01-1U-1U-0/24VDC	1-channel solenoid driver
7580105	IMX12-DO01-2U-2U-0/24VDC	2-channel solenoid driver
7580313	IMX12-AI01-1I-1IU-H0/24VDC	1-channel HART® isolating transducer
7580301	IMX12-AI01-1I-2IU-H0/24VDC	1-channel HART® isolating transducer with splitter function
7580305	IMX12-AI01-2I-2IU-H0/24VDC	2-channel HART® isolating transducer
7580309	IMX12-AI01-1I-1IU1R-H0/24VDC	1-channel HART® isolating transducer with limit value
7580401	IMX12-AO01-1I-1I-H0/24VDC	1-channel HART® output analog signal isolator
7580405	IMX12-AO01-2I-2I-H0/24VDC	2-channel HART® output analog signal isolator
7580501	IMX12-TI02-1TCURTDR-1I-0/24VDC	1-channel universal temperature transducer with current output
7580505	IMX12-TI02-1TCURTDR-1I1R-C0/24VDC	1-channel universal temperature transducer with current output and limit value
7580509	IMX12-TI02-2TCURTDR-2I-C0/24VDC	2-channel universal temperature transducer with current output
7580513	IMX12-TI01-2RTDR-2I-C0/24VDC	2-channel temperature transducer with current output
7580501	IMX12-TI02-1TCURTDR-1I-0/24VDC	1-channel universal temperature transducer with current output
7580209	IMX12-FI01-2SF-2I-C0/24VDC	2-channel frequency transducer with current output
7580205	IMX12-FI01-1SF-1I1R-C0/24VDC	1-channel frequency transducer with current output and limit value
7580201	IMX12-FI01-1SF-1R-0/24VDC	1-channel frequency transducer with limit value
7580620	IMX12-CD-2R-2U-O/L	2-channel relay coupler up to SIL3
7580610	IMX12-PS02-UI-UIR-PR/24VDC	DIN rail power supply unit for power-bridge modules
100047815	IM12-PS2412-U-U-PR/W3	System switching power supply module for IMX(X) devices with power-bridge
100009877	IMX12-SG10-1U-1UI-0/24VDC	1-channel strain gauge transducer/repeater

Devices with DIN rail power supply and spring-loaded terminals optionally available.

Dimensions



Technical data

Operating voltage	10…30 VDC
Suitable for use in safety circuits up to	SIL 2 acc. to IEC 61508
Dimensions	12.5 x 112 x 110 mm
Application areas	II (1) G, II (1) D
Explosion protection type	[Ex ia Ga] IIC; [Ex ia Da] IIIC Ex nA nC [ia Ga] IIC/IIB T4 Gc
Ambient temperature	-25…+70 °C

Availability/Reliability
- Transparent cover

High channel density
- 4 connection possibilities on each side

Easily mounted
- Power supply via optional power bridge

Products are linked with further information.

Over 30 subsidiaries and
60 representatives worldwide!