

TURCK

Your Global Automation Partner

IMX Interface Series Selection Guide



IMX Interface Series

Interface devices are the true all-around solutions for the control cabinet. They combine protecting, isolating, converting and supply tasks in the smallest space. A further 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 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 standards. You 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.



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, in the long term and under changing market conditions.

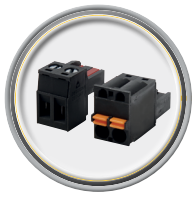


Global

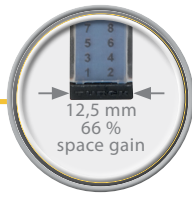
Turck is a globally operating company, fulfilling requirements in international markets. We offer worldwide approvals, and ensure the applicability of devices in different systems.



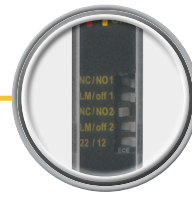
Clear signalling acc. to NE44



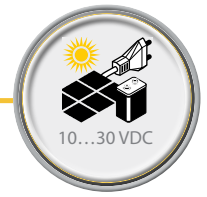
Screw or cage clamp terminals



- Up to 66 % space gain
- 4 terminal strips
- IMX12 series: 12.5 mm width and 120 mm depth
- IMXK series: 12.5 mm width and 77 mm depth
- IMX18 series: 17.5 mm width and 120 mm depth



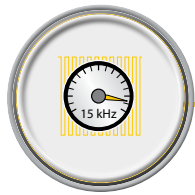
- Simple operation
- DIP switch
- Parameterizable via FDT/DTM



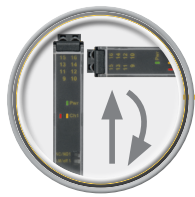
Wide power supply range



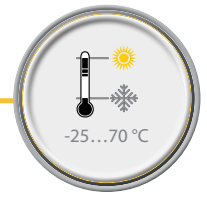
Best total performance @ 40 °C for analog signal isolators



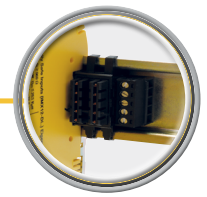
Fastest isolating switching amplifier up to 15 kHz



Independent of mounting position -25...+70 °C



Wide temperature range



Power rail + Collective fault signal optional



Use in Class I Div 2 & 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 Interface Series - Part Number Key

IM X 12 - DI01 - 1S - 2R - PR / 24 VDC CC

IM	X	Design	12	Housing width	-	DI01	Device functions	-
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Application area/Design	Housing width [mm]	Device functions
X Ex-area, intrinsically safe	12 12 mm	DI01 Isolating switching amplifier, digital input, line monitoring can be switched off
Blank Zone 2, non-intrinsically safe	18 18 mm	DI02 Isolating switching amplifier, digital input, without line monitoring
K Ex-area, intrinsically safe, compact design		DI03 Isolating switching amplifier, digital input, NAMUR repeater or alarm output
Design		FI01 Frequency transducer/pulse counter, frequency input
IM Interface module		AI01 Isolating transducer, analog input, 4...20 mA active, passive line monitoring
		AI02 Isolating transducer, analog input, 4...20 mA active, passive
		TI01 Temperature transducer, temperature input, RTD
		TI02 Temperature transducer, temperature input TC and RTD, millivolt
		AO01 Analog signal isolator, analog output, 4...20 mA active, line monitoring
		AO02 Analog signal isolator, analog output, 4...20 mA active
		DO01 Solenoid driver, digital output, line monitoring, device-specific curve
		LC01 Level control
		CD01 Relay coupler, behavior adjustable via terminal connection
		PS01 Power supply, power supply unit
		CCM Cabinet guard, see type code CCM

1S	Number of inputs	-	2R	Number of outputs	-
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Number of inputs	Number of outputs
1 S Switch	1 I Current
2 NAM NAMUR	2 U Voltage
3 F Frequency	3 T Potential-free transistor
4 I Current	4 PNP PNP switching transistor
5 U Voltage	5 NPN NPN switching transistor
6 TC Thermocouple	MT MOSFET
7 RTD T resistor	R Relay
8 POT Potentiometer	RTD Resistor
9 R Resistor	NAM NAMUR
10 MTIS Humidity	F Frequency
11 T Temperature	PP Push-pull (level)
12 NPN Infrared	
13 Reed Switch	

PR	Additional functions	/	24 VDC	Power supply
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Additional functions	Power supply
H HART®	24 VDC 10...30 VDC
C PC configurable	24 VUC 10...30 VUC
PR Power bridge	L Loop-powered
0 Without power bridge	W1 20...250 VAC/20...125 VAC
S Fault alarm output	W2 20...250 VAC/20...250 VAC
P Pulse	W2 20...250 VAC/20...250 VDC
IO-Link	
Blank Not parameterizable or parameterizable via switches	

CC	Electrical connection
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Electrical connection
CC Spring type terminals
Empty Screw terminals

Example of devices with spring type terminals:
IM12-DI01-2S-2T-0/24VDC/CC

Example of devices with power bridge supply:
IM12-DI01-2S-2T-PR/24VDC/CC

IMX Interface Series - Types and Features

Digital Input Barriers

Approvals/Certifications: SIL 2, FM, UL, IECEx, ATEX, NEPSI, KOSHA, INMETRO, TIIS, TR CU EAC

ID Number	Part Number	Input/Field			Output/DCS						Power		Terminal	
		Channels	Line Monitoring*	NAMUR/Dry Contact	Channels	NAMUR	Relay	Transistor	Push-Pull	Alarm	Connector	Power Bridge**	Screw	Spring/Cage Clamp
7580000	IMX12-DI03-1S-1NAM1R-0/24VDC	1	S	•	2	•	•				•		•	
7580001	IMX12-DI03-1S-1NAM1R-PR/24VDC	1	S	•	2	•	•					•	•	
7580002	IMX12-DI03-1S-1NAM1R-0/24VDC/CC	1	S	•	2	•	•				•			•
7580003	IMX12-DI03-1S-1NAM1R-PR/24VDC/CC	1	S	•	2	•	•					•		•
7580004	IMX12-DI03-1S-1NAM1T-0/24VDC	1	S	•	2	•		•			•		•	
7580005	IMX12-DI03-1S-1NAM1T-PR/24VDC	1	S	•	2	•		•				•	•	
7580006	IMX12-DI03-1S-1NAM1T-0/24VDC/CC	1	S	•	2	•		•			•			•
7580007	IMX12-DI03-1S-1NAM1T-PR/24VDC/CC	1	S	•	2	•		•				•		•
7580008	IMX12-DI03-1S-2R-S/24VDC	1	S	•	2		•			•	•		•	
7580009	IMX12-DI03-1S-2R-SPR/24VDC	1	S	•	2		•			•		•	•	
7580010	IMX12-DI03-1S-2R-S/24VDC/CC	1	S	•	2		•			•	•			•
7580011	IMX12-DI03-1S-2R-SPR/24VDC/CC	1	S	•	2		•			•		•		•
7580012	IMX12-DI03-1S-2T-S/24VDC	1	S	•	2			•		•	•		•	
7580013	IMX12-DI03-1S-2T-SPR/24VDC	1	S	•	2			•		•		•	•	
7580014	IMX12-DI03-1S-2T-S/24VDC/CC	1	S	•	2			•		•	•			•
7580015	IMX12-DI03-1S-2T-SPR/24VDC/CC	1	S	•	2			•		•		•		•
7580016	IMX12-DI01-2S-2R-0/24VDC	2	S	•	2		•				•		•	
7580017	IMX12-DI01-2S-2R-PR/24VDC	2	S	•	2		•					•	•	
7580018	IMX12-DI01-2S-2R-0/24VDC/CC	2	S	•	2		•				•			•
7580019	IMX12-DI01-2S-2R-PR/24VDC/CC	2	S	•	2		•					•		•
7580020	IMX12-DI01-2S-2T-0/24VDC	2	S	•	2			•			•		•	
7580021	IMX12-DI01-2S-2T-PR/24VDC	2	S	•	2			•				•	•	
7580022	IMX12-DI01-2S-2T-0/24VDC/CC	2	S	•	2			•			•			•
7580023	IMX12-DI01-2S-2T-PR/24VDC/CC	2	S	•	2			•				•		•
7580024	IMX12-DI01-2S-2PP-0/24VDC	2	S	•	2				•		•		•	
7580025	IMX12-DI01-2S-2PP-PR/24VDC	2	S	•	2				•			•	•	
7580026	IMX12-DI01-2S-2PP-0/24VDC/CC	2	S	•	2				•		•			•
7580027	IMX12-DI01-2S-2PP-PR/24VDC/CC	2	S	•	2				•			•		•

* F = Fixed, S = Selectable

** The power bridge is a connector based system comprised of an optional power supply module which feeds power to all devices via a power bridge connector. (See accessories on page 12)

IMX Interface Series - Types and Features

Digital Output Barriers

Approvals/Certifications: SIL 2, FM, UL, IECEx, ATEX, NEPSI, KOSHA, INMETRO, TIIS, TR CU EAC

ID Number	Part Number	Input/ Field		Output/ DCS		Power		Terminal	
		Channels	Line Monitoring*	Channels	10-30 VDC	Connector	Power Bridge**	Screw	Spring/Cage Clamp
7580100	IMX12-DO01-1U-1U-PR/24VDC	1	F	1	•	•	•	•	•
7580101	IMX12-DO01-1U-1U-0/24VDC	1	F	1	•	•	•	•	•
7580102	IMX12-DO01-1U-1U-PR/24VDC/CC	1	F	1	•	•	•	•	•
7580103	IMX12-DO01-1U-1U-0/24VDC/CC	1	F	1	•	•	•	•	•
7580104	IMX12-DO01-2U-2U-PR/24VDC	2	F	2	•	•	•	•	•
7580105	IMX12-DO01-2U-2U-0/24VDC	2	F	2	•	•	•	•	•
7580106	IMX12-DO01-2U-2U-PR/24VDC/CC	2	F	2	•	•	•	•	•
7580107	IMX12-DO01-2U-2U-0/24VDC/CC	2	F	2	•	•	•	•	•

* F = Fixed, S = Selectable

** The power bridge is a connector based system comprised of an optional power supply module which feeds power to all devices via a power bridge connector. (See accessories on page 12)

Analog Input Barriers

Approvals/Certifications: SIL 2, FM, UL, IECEx, ATEX, NEPSI, KOSHA, INMETRO, TIIS, TR CU EAC

ID Number	Part Number	Input/Field				Output/DCS				Power		Terminal	
		Channels	Line Monitoring*	4-20 mA Source/Sink	HART	Channels	4-20 mA Source/Sink	1-5 V Source	HART	Connector	Power Bridge**	Screw	Spring/Cage Clamp
7580300	IMX12-AI01-1I-2IU-HPR/24VDC	1	F	•	•	1	•	•	•	•	•	•	•
7580302	IMX12-AI01-1I-2IU-HPR/24VDC/CC	1	F	•	•	1	•	•	•	•	•	•	•
7580301	IMX12-AI01-1I-2IU-H0/24VDC	1	F	•	•	2	•	•	•	•	•	•	•
7580303	IMX12-AI01-1I-2IU-H0/24VDC/CC	1	F	•	•	2	•	•	•	•	•	•	•
7580304	IMX12-AI01-2I-2IU-HPR/24VDC	2	F	•	•	2	•	•	•	•	•	•	•
7580305	IMX12-AI01-2I-2IU-H0/24VDC	2	F	•	•	2	•	•	•	•	•	•	•
7580306	IMX12-AI01-2I-2IU-HPR/24VDC/CC	2	F	•	•	2	•	•	•	•	•	•	•
7580307	IMX12-AI01-2I-2IU-H0/24VDC/CC	2	F	•	•	2	•	•	•	•	•	•	•
7580312	IMX12-AI01-1I-1IU-HPR/24VDC	1	F	•	•	1	•	•	•	•	•	•	•
7580313	IMX12-AI01-1I-1IU-H0/24VDC	1	F	•	•	1	•	•	•	•	•	•	•
7580314	IMX12-AI01-1I-1IU-HPR/24VDC/CC	1	F	•	•	1	•	•	•	•	•	•	•
7580315	IMX12-AI01-1I-1IU-H0/24VDC/CC	1	F	•	•	1	•	•	•	•	•	•	•

IMX Interface Series - Types and Features

Analog Output Barriers

Approvals/Certifications: SIL 2, FM, UL, IECEx, ATEX, NEPSI, KOSHA, INMETRO, TIIS, TR CU EAC

ID Number	Part Number	Input/Field				Output/DCS			Power		Terminal	
		Channels	Line Monitoring*	4-20 mA Source	HART	Channels	4-20 mA Sink	HART	Connector	Power Bridge**	Screw	Spring/Cage Clamp
7580400	IMX12-AO01-1I-1I-HPR/24VDC	1	F	•	•	1	•	•	•	•	•	•
7580401	IMX12-AO01-1I-1I-H0/24VDC	1	F	•	•	1	•	•	•	•	•	•
7580402	IMX12-AO01-1I-1I-HPR/24VDC/CC	1	F	•	•	1	•	•	•	•	•	•
7580403	IMX12-AO01-1I-1I-H0/24VDC/CC	1	F	•	•	1	•	•	•	•	•	•
7580404	IMX12-AO01-2I-2I-HPR/24VDC	2	F	•	•	2	•	•	•	•	•	•
7580405	IMX12-AO01-2I-2I-H0/24VDC	2	F	•	•	2	•	•	•	•	•	•
7580406	IMX12-AO01-2I-2I-HPR/24VDC/CC	2	F	•	•	2	•	•	•	•	•	•
7580407	IMX12-AO01-2I-2I-H0/24VDC/CC	2	F	•	•	2	•	•	•	•	•	•

* F = Fixed, S = Selectable

** The power bridge is a connector based system comprised of an optional power supply module which feeds power to all devices via a power bridge connector. (See accessories on page 12)

Analog Temperature Barriers

Approvals/Certifications: SIL 2, FM, UL, IECEx, ATEX, NEPSI, KOSHA, INMETRO, TIIS, TR CU EAC

Configuration: PC Port***

Analog Temperature Barriers

Approvals/Certifications: SIL 2, FM, UL, IECEx, ATEX, NEPSI, KOSHA, INMETRO, TIIS, TR CU EAC

Configuration: PC Port***

ID Number	Part Number	Input/Field							Output/DCS			Power		Terminal	
		Channels	Line Monitoring*	2, 3, 4-wire RTD	2, 3-wire RTD	mV	Thermocouple	Resistor	Channels	Relay	0/4-20 mA Source/Sink	Connector	Power Bridge**	Screw	Spring/Cage Clamp
7580504	IMX12-TI02-1TCURTDR-1I1R-CPR/24VDC	1	F	•		•	•	•	2	•	•		•	•	
7580505	IMX12-TI02-1TCURTDR- 1I1R-C0/24VDC	1	F	•		•	•	•	2	•	•	•		•	
7580506	IMX12-TI02-1TCURTDR-1I1R-CPR/24VDC/CC	1	F	•		•	•	•	2	•	•		•		•
7580507	IMX12-TI02-1TCURTDR-1I1R-C0/24VDC/CC	1	F	•		•	•	•	2	•	•	•			•
7580508	IMX12-TI02-2TCURTDR-2I-CPR/24VDC	2	F		•	•	•	•	2		•		•	•	
7580509	IMX12-TI02-2TCURTDR-2I-C0/24VDC	2	F		•	•	•	•	2		•	•		•	
7580510	IMX12-TI02-2TCURTDR-2I-CPR/24VDC/CC	2	F		•	•	•	•	2		•		•		•
7580511	IMX12-TI02-2TCURTDR-2I-C0/24VDC/CC	2	F		•	•	•	•	2		•	•			•
7580512	IMX12-TI01-2RTDR-2I-CPR/24VDC	2	F	•				•	2		•		•	•	
7580513	IMX12-TI01-2RTDR-2I-C0/24VDC	2	F	•				•	2		•	•		•	
7580514	IMX12-TI01-2RTDR-2I-CPR/24VDC/CC	2	F	•				•	2		•		•		•
7580515	IMX12-TI01-2RTDR-2I-C0/24VDC/CC	2	F	•				•	2		•	•			•

IMX Interface Series - Types and Features

Frequency Barriers

Approvals/Certifications: SIL 2, FM, UL, IECEx, ATEX, NEPSI, KOSHA, INMETRO, TIIS, TR CU EAC

Configuration: PC Port***

ID Number	Part Number	Input/Field			Output/DCS			Power		Terminal	
		Channels	Line Monitoring*	NAMUR/Dry Contact	Channels	Relay	0/4-20 mA Source/Sink	Connector	Power Bridge**	Screw	Spring/Cage Clamp
7580200	IMX12-FI01-1SF-1R-PR/24VDC	1	F	•	1	•	•		•	•	
7580201	IMX12-FI01-1SF-1R-0/24VDC	1	F	•	1	•	•			•	
7580202	IMX12-FI01-1SF-1R-PR/24VDC/CC	1	F	•	1	•	•		•		•
7580203	IMX12-FI01-1SF-1R-0/24VDC/CC	1	F	•	1	•	•				•
7580204	IMX12-FI01-1SF-1I1R-CPR/24VDC	1	F	•	2	•	•		•	•	
7580205	IMX12-FI01-1SF-1I1R-C0/24VDC	1	F	•	2	•	•	•		•	
7580206	IMX12-FI01-1SF-1I1R-CPR/24VDC/CC	1	F	•	2	•	•		•		•
7580207	IMX12-FI01-1SF-1I1R-C0/24VDC/CC	1	F	•	2	•	•	•			•
7580208	IMX12-FI01-2SF-2I-CPR/24VDC	2	F	•	2		•		•	•	
7580209	IMX12-FI01-2SF-2I-C0/24VDC	2	F	•	2		•	•		•	
7580210	IMX12-FI01-2SF-2I-CPR/24VDC/CC	2	F	•	2		•		•		•
7580211	IMX12-FI01-2SF-2I-C0/24VDC/CC	2	F	•	2		•	•			•

* F = Fixed, S = Selectable

** The power bridge is a connector based system comprised of an optional power supply module which feeds power to all devices via a power bridge connector. (See accessories on page 12)

*** PC configuration requires M12 to serial cable and USB Master. (See accessories on page 12)

Relay Coupler Barriers

Approvals/Certifications: SIL 2, SIL 3*, FM, UL, IECEx, ATEX, NEPSI, KOSHA, INMETRO, TIIS, TR CU EAC

ID Number	Part Number	Input/DCS		Output/Field		Power	Terminal	
		Channels	10...30 VDC	Channels	Relay	Loop-powered	Screw	Spring/Cage Clamp
7580620	IMX12-CD01-2R-2U-0/L	3	•	3	•	•	•	
7580621	IMX12-CD01-2R-2U-0/L/CC	3	•	3	•	•		•

* Reference datasheet/safety manual for details

IMX Interface Series - Types and Features

Digital Input Barriers

Approvals: SIL 2, UL, IECEx, ATEX

ID Number	Part Number	Input/Field			Output/DCS						Power		Terminal	
		Channels	Line Monitoring*	NAMUR/Dry Contact	Channels	NAMUR	Relay	Transistor	Push-Pull	Alarm	Connector	Power Bridge**	Screw	Spring/Cage Clamp
100000679	IMXK12-DI01-1S-1R-0/24VDC	1	S	•	1			•			•			•
100000680	IMXK12-DI01-1S-1R-0/24VDC/CC	1	S	•	1		•				•			•
100000681	IMXK12-DI01-1S-1T-0/24VDC	1	S	•	1		•	•			•		•	
100000682	IMXK12-DI01-1S-1T-0/24VDC/CC	1	S	•	1			•			•			•
100000683	IMXK12-DI01-1S-1PP-0/24VDC	1	S	•	1				•		•		•	
100000684	IMXK12-DI01-1S-1PP-0/24VDC/CC	1	S	•	1				•		•			•
100000684	IMXK12-DI01-1S-1PP-0/24VDC/CC	1	S	•	1				•		•			•

* F = Fixed, S = Selectable

** The power bridge is a connector based system comprised of an optional power supply module which feeds power to all devices via a power bridge connector. (See accessories on page 12)

Analog Input Barriers

Approvals: SIL 2, UL, IECEx, ATEX

ID Number	Part Number	Input				Output				Power		Terminal	
		Channels	Line Monitoring*	4-20 mA Source/Sink	HART	Channels	4-20 mA Source/Sink	1-5 V Source	HART	Connector	Power Bridge**	Screw	Spring/Cage Clamp
100000687	IMXK12-AI01-1I-1I-H0/24VDC	1	F	•	•	1	•	•	•	•		•	
100000688	IMXK12-AI01-1I-1I-H0/24VDC/CC	1	F	•	•	1	•	•	•	•			•

Digital Output Barriers

Approvals: SIL 2, UL, IECEx, ATEX

ID Number	Part Number	Input		Output		Power		Terminal	
		Channels	Line Monitoring*	Channels	10-30 VDC	Connector	Power Bridge**	Screw	Spring/Cage Clamp
100000709	IMXK12-DO01-1U-1U-0/24VDC	1	F	1	•	•		•	
100000710	IMXK12-DO01-1U-1U-0/24VDC/CC	1	F	1	•	•			•

IMX Interface Series - Types and Features

Analog Output Barriers

Approvals: SIL 2, UL, IECEx, ATEX

ID Number	Part Number	Input				Output				Power		Terminal	
		Channels	Line Monitoring*	4-20 mA Source/Sink	HART	Channels	4-20 mA Source/Sink	1-5 V Source	HART	Connector	Power Bridge**	Screw	Spring/Cage Clamp
100000703	IMXK12-AO01-1I-1I-H0/24VDC	1	F	•	•	1	•	•	•	•		•	
100000704	IMXK12-AO01-1I-1I-H0/24VDC/CC	1	F	•	•	1	•	•	•	•			•

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Digital Input Barriers

Approvals/Certifications: SIL 2, FM, UL, IECEx, ATEX, NEPSI, KOSHA, INMETRO, TIIS, TR CU EAC

ID Number	Part Number	Input/Field			Output/DCS						Power		Terminal	
		Channels	Line Monitoring*	NAMUR/Dry Contact	Channels	NAMUR	Relay	Transistor	Push-Pull	Alarm	Connector	Power Bridge**	Screw	Spring/Cage Clamp
100030007	IMX18-DI03-4S-4T1R-S/24VDC	4	S	•	4			•		•	•		•	
100030008	IMX18-DI03-4S-4T1R-S/24VDC/CC	4	S	•	4			•		•	•			•
100030009	IMX18-DI03-4S-4T1R-SPR/24VDC	4	S	•	4			•		•		•	•	
100030010	IMX18-DI03-4S-4T1R-SPR/24VDC/CC	4	S	•	4			•		•		•		•
100028612	IMX18-DI03-4S-5R-S/24VDC	4	S	•	5		•			•	•		•	
100028615	IMX18-DI03-4S-5R-S/24VDC/CC	4	S	•	5		•			•	•			•
100028614	IMX18-DI03-4S-5R-SPR/24VDC	4	S	•	5		•			•		•	•	
100028616	IMX18-DI03-4S-5R-SPR/24VDC/CC	4	S	•	5		•			•		•		•

* F = Fixed, S = Selectable

** The power bridge is a connector based system comprised of an optional power supply module which feeds power to all devices via a power bridge connector. (See accessories on page 12)

IMX Interface Series – Types and Features

ID Number	Part Number	Description
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
100000679	IMXK12-DI01-1S-1R-0/24VDC	1-channel Isolating switching amplifier with relay output, screw terminals
100000680	IMXK12-DI01-1S-1R-0/24VDC/CC	1-channel Isolating switching amplifier with relay output, spring terminals
100000681	IMXK12-DI01-1S-1T-0/24VDC	1-channel Isolating switching amplifier with transistor output, screw terminals
100000682	IMXK12-DI01-1S-1T-0/24VDC/CC	1-channel Isolating switching amplifier with transistor output, spring terminals
100000683	IMXK12-DI01-1S-1PP-0/24VDC	1-channel Isolating switching amplifier with push pull output, screw terminals
100000684	IMXK12-DI01-1S-1PP-0/24VDC/CC	1-channel Isolating switching amplifier with push pull output, spring terminals
7580101	IMX12-DO01-1U-1U-0/24VDC	1-channel solenoid driver
100000709	IMXK12-DO01-1U-1U-0/24VDC	1-channel solenoid driver
100000710	IMXK12-DO01-1U-1U-0/24VDC/CC	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
100000687	IMXK12-AI01-1I-1IU-H0/24VDC	1-channel HART® isolating transducer
100000688	IMXK12-AI01-1I-1IU-H0/24VDC/CC	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
7580401	IMX12-AO01-1I-1I-H0/24VDC	1-channel HART® output analog signal isolator
100000703	IMXK12-AO01-1I-1I-H0/24VDC	1-channel HART® output analog signal isolator
100000704	IMXK12-AO01-1I-1I-H0/24VDC/CC	1-channel HART® output analog signal isolator
7580405	IMX12-AO01-2I-2I-H0/24VDC	2-channel HART® output analog signal isolator
7580505	IMX12-TI02-1TCURTDR-111R-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
7580209	IMX12-FI01-2SF-2I-C0/24VDC	2-channel frequency transducer with current output
7580205	IMX12-FI01-1SF-111R-C0/24VDC	1-channel frequency transducer with current output and limit value
7580620	IMX12-CD-2R-2U-O/L	2-channel relay coupler up to SIL3
7580610	IMX12-PS02-UI-UIR-PR/24VDC	Power supply for power-bridge modules
100030007	IMX18-DI03-4S-4T1R-S/24VDC	4-channel Isolating switching amplifier, transistor output, screw terminals
100030008	IMX18-DI03-4S-4T1R-S/24VDC/CC	4-channel Isolating switching amplifier, transistor output, spring terminals
100030009	IMX18-DI03-4S-4T1R-SPR/24VDC	4-channel Isolating switching amplifier, transistor output, power bridge, screw terminals
100030010	IMX18-DI03-4S-4T1R-SPR/24VDC/CC	4-channel Isolating switching amplifier, transistor output, power bridge, spring terminals
100028612	IMX18-DI03-4S-5R-S/24VDC	4-channel Isolating switching amplifier, relay output, screw terminals
100028615	IMX18-DI03-4S-5R-S/24VDC/CC	4-channel Isolating switching amplifier, relay output, spring terminals
100028614	IMX18-DI03-4S-5R-SPR/24VDC	4-channel Isolating switching amplifier, relay output, power bridge, screw terminals
100028616	IMX18-DI03-4S-5R-SPR/24VDC/CC	4-channel Isolating switching amplifier, relay output, power bridge, spring terminals

Devices with power bridge and cage clamp terminals are optional



Products are linked with further information.

IMX Interface Series - Types and Features



Availability/Reliability

- Transparent cover

High channel density

- 4 connection possibilities on each side

Easily mounted

- Power supply via optional power bridge

Dimensions	Technical data	IMX12
	Operating voltage	10...30 VDC
	Suitable for use in safety circuits up to	SIL 2 acc. to IEC 61508
	Dimensions	120 x 12.5 x 117 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

Dimensions	Technical data	IMXK12
	Operating voltage	10...30 VDC
	Suitable for use in safety circuits up to	SIL 2 acc. to IEC 61508
	Dimensions	77 x 12.5 x 126 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

Dimensions	Technical data	IMX18
	Operating voltage	10...30 VDC
	Suitable for use in safety circuits up to	SIL 2 acc. to IEC 61508
	Dimensions	120 x 17.5 x 126 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

Accessories

ID Number	Part Number	Description
7580943	IMX12-CC-2X-4BU	Removable spring terminals, 2-pin, Blue (4pcs)
7580941	IMX12-SC-2X-4BU	Removable screw terminals, 2-pin, Blue (4pcs)
7580942	IMX12-CC-2X-4BK	Removable spring terminals, 2-pin, Black (4pcs)
7580940	IMX12-SC-2X-4BK	Removable screw terminals, 2-pin, Black (4pcs)
7580610	IMX12-PS02-UI-UIR-PR/24VDC	Power supply module w/removable screw terminals
7580611	IMX12-PS02-UI-UIR-PR/24VDC/CC	Power supply module w/removable spring terminals
7525110	IOL-COM/3M	M12 to serial plug device cable
6825482	USB-2-IOL-0002	USB to M12 IO-Link Master

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