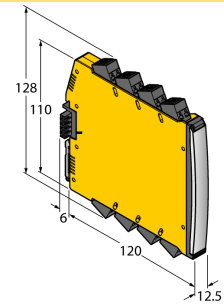




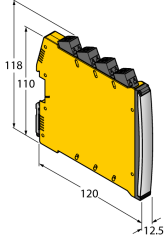
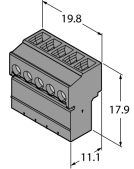
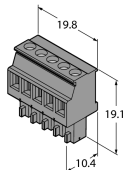
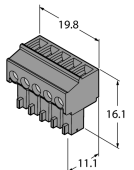
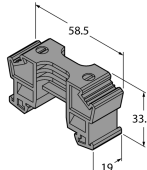
## Dimensions



Type	IM12-AI01-11-2IU-HPR/24VDC/CC
ID	7580322
Nominal voltage	24 VDC
Operating voltage $U_s$	10...30 VDC
Power consumption	$\leq 3.8$ W
Power dissipation, typical	$\leq 1.9$ W
<b>Transmitter connection</b>	
Supply voltage	17 V/20 mA typ.
Input current	4...20 mA
<b>Output circuits</b>	
Output current	2 x source/sink (15...28 V) 4...20 mA
Output voltage	2 x 1...5 V
Load resistance current output	$\leq 0.8$ k $\Omega$
Short-circuit	Output < 3.5 mA, if in the input circuit a current > 22 mA flows
Wire break	Output < 3.5 mA, if in the input circuit a current < 3.5 mA flows
Power-Bridge common alarm output	MOSFET, $U_{max} = 30$ V, $I_{max} = 100$ mA
<b>Response characteristic</b>	
Rise time (10...90 %)	$\leq 5$ ms
Fall time (90...10 %)	$\leq 5$ ms
Measuring accuracy (including linearity, hysteresis and repeatability)	$\leq 0.05$ % of full scale
Temperature drift	$\leq 0.002$ % of full scale/K
<b>Galvanic isolation</b>	
Test voltage	2.5 kV RMS
Input 1 to output 1	375 V peak value acc. to EN 60079-11
Input 1 to supply	375 V peak value acc. to EN 60079-11
Output 1 to supply	50 V RMS acc. to EN 50178 and EN 61010-1
Output 2 to supply	50 V RMS acc. to EN 50178 and EN 61010-1
Important note	For Ex-applications the values specified in the corresponding Ex certificates (ATEX, IECEx, UL, etc.) apply.
Important note	If the device is used in applications to achieve functional safety according to IEC 61508, the safety manual must be used. Information in the data sheet are not valid for functional safety.
Use in SIL safety circuits	SIL 2 acc. to IEC 61508
<b>Displays/Operating elements</b>	
Operational readiness	Green
Error indication	red

Mechanical data			
Protection class	IP20		
Flammability class acc. to UL 94	V-0		
Ambient temperature	-25...+70 °C		
Storage temperature	-40...+80 °C		
Dimensions	120 x 12.5 x 128 mm		
Weight	173 g		
Mounting instructions	DIN rail (NS35)		
Housing material	Plastic, Polycarbonate/ABS		
Electrical connection	Removable spring-type terminals, 2-pin		
Connection variant	Power bridge with collective fault signal		
Terminal cross-section	0.2...2.5 mm <sup>2</sup> (AWG: 24...14)		
Environmental conditions	Operating height	Up to 2000 m above sea level	
	Pollution degree	II	
	Surge/Overvoltage category	II (EN 61010-1)	
	Standards used		
	Voltage resistance and insulation		EN 50178
			EN 61010-1
			EN 50155
			GL VI-7-2
	Shock		EN 61373 class B
			EN 50155
			GL VI-7-2
			EN 60068-2-6
			EN 60068-2-27
	Temperature		EN 60068-2-1 Ad
			EN 50155
			GL VI-7-2
			EN 60068-2-2 Bd
			EN 60068-2-1
	Air humidity		EN 60068-2-38
	EMC		EN 50155
			NE21
			EN 61326-1
			EN 61326-3-1
			EN 61000-4-2
			EN 61000-4-3
			EN 61000-4-4
		EN 61000-4-5	
		EN 61000-4-6	
		EN 61000-4-11	
		EN 61000-4-29	
		EN 55011	
		EN 55016	
		EN 50121-3-2	
		EN 61000-6-2	

## Accessories

Type code	Ident no.		Dimension drawing
IMX12-PS02-UI-UIR-PR/24VDC/CC	7580611	Power supply module power bridge; Collective fault signal via relay; Single and redundant power supply via terminals; Removable screw terminals	
IMC 1.5/ 5-ST-3.81 BK	7580954	Power Bridge Connection Terminal	
MCVR 1.5/ 5-ST-3.81 BK	7580955	Power Bridge Connection Terminal	
MC 1.5/ 5-ST-3.81 BK	7580956	Power Bridge Connection Terminal	
E/ME TBUS NS35 BK	7580957	Power Bridge Connection Terminal	
IMX12-SC-2X-4BK	7580940	Screw terminals for IM(X)12 modules; included in delivery: 4 pcs. of 2-pin black terminals	
IMX12-CC-2X-4BK	7580942	Spring terminals for IM(X)12 modules; included in delivery: 4 pcs. black terminals, 2-pin	