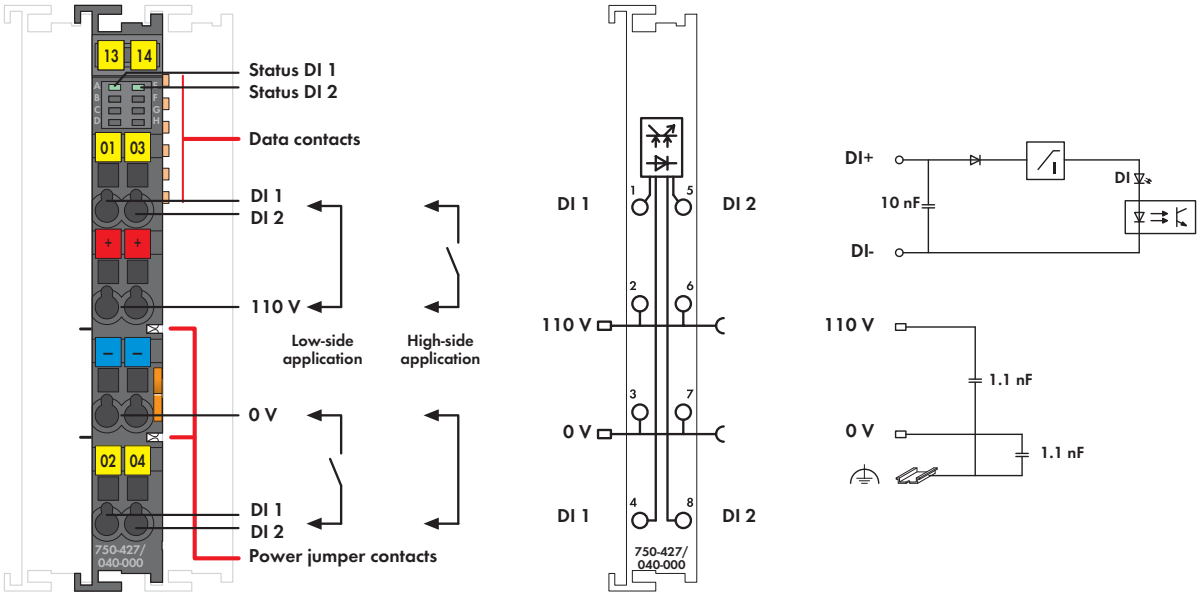
750-427/040-000

2-Channel Digital Input Module 110 V DC

For eXTReme environmental conditions; configurable high-side or low-side switching



The digital input module receives control signals from digital field devices (e.g., sensors).
The module is a 2-channel device. Each channel can be used as a high-side or low-side switching input, depending on the external wiring.
Field and system levels are electrically isolated.

The module is ideal for operation in harsh environments:
- extended temperature range
- higher dielectric strength and EMC resistance
- greater vibration and shock resistance

Notice:
An additional supply module must be added for operation with 110VDC!

Description	Item No.	Pack. Unit
2DI 110V DC 3.0ms /XTR	**750-427/040-000**	1

Accessories		Item No.	Pack. Unit
Miniature WSB Quick marking system			
	plain	**248-501**	50
	with marking	see Full Line Catalog Automation Technology	

Approvals

Conformity marking	CE
UL 508	pending
ANSI/ISA 12.12.01	Class I Div2 ABCD T4
Marine applications	DNV GL, LR
TÜV 17 ATEX 193969 X	II 3G Ex ec IIC T4 Gc
IECEx TUN 16.0046 X	Ex ec IIC T4 Gc

Technical Data

Wire connection	CAGE CLAMP®
Cross sections	0.25 mm² ... 2.5 mm² / AWG 24 ... 14
Strip lengths	8 ... 9 mm / 0.33 in
Dimensions (mm) W x H x L	12 x 62 x 100
	Height from upper-edge of DIN 35 rail
Weight	48 g
Operating temperature	-40 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C
Relative humidity	Max. 95 % short-term condensation per
	Class 3K7/IEC EN 60721-3-3 and E DIN
	40046-721-3 (except wind-driven
	precipitation, water and ice formation)
Operating altitude	without temperature derating: 0 m ... 2000 m;
	with temperature derating: 2000 m ... 5000 m
	(0.5 K/100 m); max.: 5000 m

Technical Data

Number of inputs	2
Signal voltage (0)	-14 V ... +50 V DC
Signal voltage (1)	+70 V ... +143 V DC
Input current (typ.)	2.5 mA at 110 V DC
Input filter	3.0 ms
Current consumption (internal)	2.5 mA
Voltage via power jumper contacts	110 V DC (-25 % ... +30 %)
Current via power jumper contacts (max.)	10 A
Rated surge voltage	5.0 kV (EN 60870-2-1 / Class VW3);
	4.0 kV (UL 508);
	4.0 kV (EN 60664-1 / up to 2,000 m
	above sea level);
	2.5 kV (EN 60664-1 / > 2,000 m up to
	5,000 m above sea level)
Overvoltage category	Nominal voltage 110 V:
	IV (EN 60664-1 / up to 2,000 m above
	sea level);
	III (EN 60664-1 / > 2,000 m up to
	5,000 m above sea level)
Degree of pollution	2 (EN 60664-1)
Internal bit width	2 bits
Vibration resistance	acc. to IEC 60068-2-6 (acceleration: 5g),
	EN 60870-2-2, IEC 60721-3-1, -3,
	EN 50155, EN 61373
Shock resistance	acc. to IEC 60068-2-27 (15g/11 ms/half-
	sine/1000 shocks; 25g/6 ms/1000
	shocks), EN 50155, EN 61373
EMC immunity of interference	acc. to EN 61000-6-1, -2, EN 61131-2,
	marine applications, EN 50121-3-2, -4, -5,
	EN 60255-26, EN 60870-2-1,
	EN 61850-3, IEC 61000-6-5, IEEE 1613,
	VDEW: 1994
EMC emission of interference	acc. to EN 61000-6-3, -4, EN 61131-2,
	EN 60255-26, marine applications,
	EN 60870-2-1, EN 61850-3,
	EN 50121-3-2, -4, -5