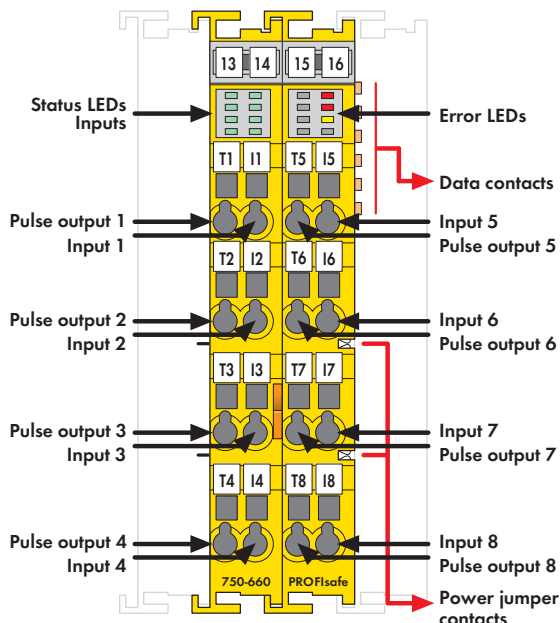
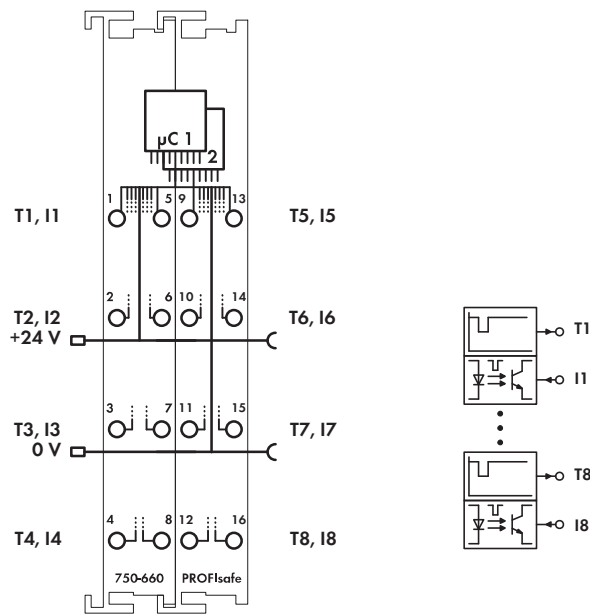


8-Channel Digital Input Module PROFI-safe V1.3




Delivered without miniature WSB markers



Emergency stop buttons, limit indicators, or other safe-contact sensors may be connected to the 750-660/000-001 PROFI-safe Input Module. The module has 8 pulse inputs (I1 ... I8) that are supplied by 8 different pulse outputs (T1 ... T8). The pulse outputs are short circuit proof. The inputs are constantly monitored for short circuits and supply voltage from separate sources. A green LED for each of the 8 input channels indicates the signal state, 2 red LEDs indicate internal or external errors. The address switch at the side of the module is used to set the PROFI-safe address. The fieldside and internal system are electrically isolated.

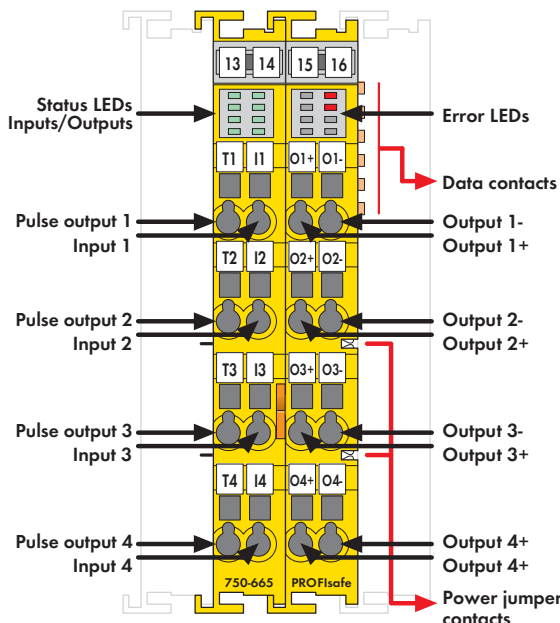
Any configuration of the input modules is possible when designing the fieldbus node. Grouping of module types is not necessary. A fieldbus node comprised of PROFI-safe devices must be supplied by a filtered power supply (PELV/SELV power supply unit). Reference the product manual for further information.

When implementing new installations, please consider PROFI-safe V2 iPar 750-662/000-003 8-Channel Digital Input Safety Module (see page 299).

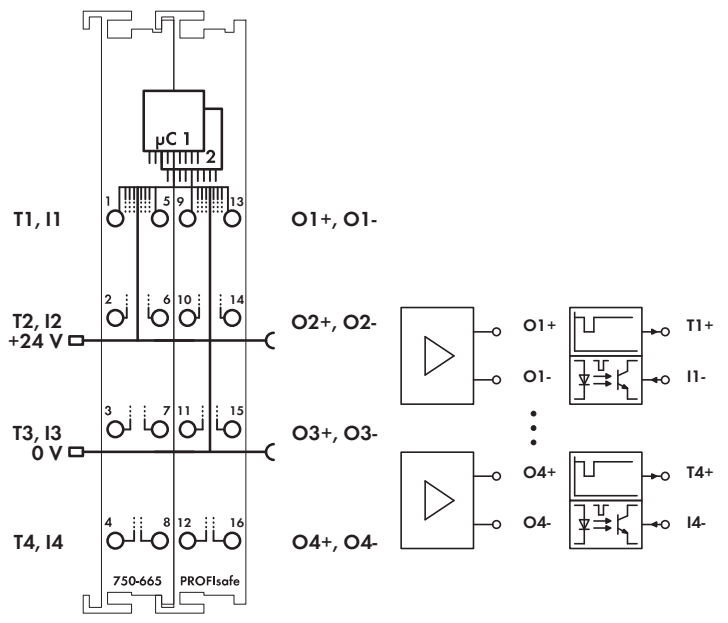
Description	Item No.	Pack. Unit
8FDI 24V DC PROFI-safe V1.3	750-660/000-001	1
Accessories		
Miniature WSB Quick marking system		
 plain	248-501	5
with marking	see pages 352 ... 353	
Standards and Approvals		
Also see "Approvals Overview" in Section 1		
Basic standard safety applications	IEC 61508, parts 1-7, 1998 und 2000; EN 954-1 Cat. 4	
Conformity marking	CE	
UL 508		
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
EN 60079-0, -15	I M2 / II 3 GD Ex nA nL IIC T4	
EN 61241-0, -1		

Technical Data	
Inputs	I1 ... I8; pulse inputs
Achievable safety classes	8 x Cat. 2/SIL 2 or 4 x Cat. 4/SIL 3
Outputs	T1 ... T8: 8 pulse outputs, short circuit proof
Voltage via power jumper contacts	24 V DC (-1.5 % ... +20 %)
Current via power jumper contacts (max.)	10 A DC
Response times (min ... max)	$t_{on} (H>L) = 13 \text{ ms} \dots 71 \text{ ms}$ $t_{off} (H>L) = 13 \text{ ms} \dots 26 \text{ ms}$ plus 2 x runtime internal bus plus 2 x runtime coupler - PLC plus runtime PLC
Proof test interval	10 years
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 14
Stripped lengths	8 ... 9 mm / 0.33 in
Width	24 mm
Weight	97 g
EMC CE-Immunity to interference	acc. to EN 61000-6-2 (2005)
EMC CE-Emission of interference	acc. to EN 61000-6-4 (2007)

4-Channel Digital Input and Output Module PROFIsafe V1.3




Delivered without miniature WSB markers



The 750-665/000-001 PROFIsafe Input and Output Module has 4 power outputs (O1 ... O4) and 4 pulse inputs (I1 ... I4) that are supplied by 4 different pulse outputs (T1 ... T4). The pulse outputs are short circuit proof. The inputs are constantly monitored for short circuits and supply voltage from separate sources. A green LED for each of the 4 input and the 4 output channels indicates the signal state, 2 red LEDs indicate internal or external errors. The address switch at the side of the module is used to set the PROFIsafe address. The fieldside and internal system are electrically isolated. Any configuration of the modules is possible when designing the fieldbus node. Grouping of module types is not necessary. Reference the product manual for further information.

When implementing new installations, please consider PROFIsafe V2 iPar 750-667/000-003 4/4-Channel Digital Input and Output Safety Module (see page 300).

Description	Item No.	Pack. Unit
4FDO 0.5A, 4FDI 24V DC PROFIsafe V1.3	750-665/000-001	1
Accessories		
Miniature WSB Quick marking system		
 plain	248-501	5
with marking	see pages 352 ... 353	
Standards and Approvals		
Also see "Approvals Overview" in Section 1		
Basic standard safety applications	IEC 61508, parts 1-7, 1998 und 2000; EN 954-1 Cat. 4	
Conformity marking	CE	
UL 508		
ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
EN 60079-0, -15	I M2 / II 3 GD Ex nA nL IIC T4	
EN 61241-0, -1		

Technical Data	
Inputs	I1 ... I4; pulse inputs (T1 ... T4)
Achievable safety classes	4 x Cat. 2/SIL 2 or 2 x Cat. 4/SIL 3
Outputs	O1 ... O4: outputs for actuators
Achievable safety classes	4 x Cat. 2/SIL 2 or 2 x Cat. 4/SIL 3
Voltage via power jumper contacts	24 V DC (-15 % ... +20 %)
Current via power jumper contacts (max.)	10 A DC
Current consumption typ. (KBUS)	55 mA
Reactance (max.)	capacitive reactance 2 nF; category DC 13
Response times (min ... max) Inputs	t _{on} (H>L) = 13 ms ... 71 ms t _{off} (H>L) = 13 ms ... 26 ms plus 2 x runtime internal bus plus 2 x runtime coupler - PLC plus runtime PLC
Response times (max.) Outputs	t _{on} (H>L) = 13 ms t _{off} (H>L) = 13 ms plus 2 x runtime internal bus plus 2 x runtime coupler - PLC plus runtime PLC
Switching frequency max.	
resistive load	5 Hz
inductive load acc. to IEC947-5-1,	0.1 Hz, 5 Hz with free-wheeling diodes
Proof test interval	10 years
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm ² ... 2.5 mm ² / AWG 28 ... 14
Stripped lengths	8 ... 9 mm / 0.33 in
Width	24 mm
Weight	98 g
EMC CE-Immunity to interference	acc. to EN 61000-6-2 (2005)
EMC CE-Emission of interference	acc. to EN 61000-6-4 (2007)

WAGO-I/O-SYSTEM

NAMUR

HART



Today's development shows that many chemical or petrochemical companies have production plants, production and process automation machines in operation which use gas-air or dust-air mixtures which can be explosive. For this reason, the electrical components used in such plants and systems must not pose a risk of explosion resulting in injury to persons or damage to property. The WAGO-I/O-SYSTEM 750 is designed for use in both hazardous and non-hazardous environments.

Using the fieldbus technology in hazardous environments can be time consuming and cost intensive and is only made possible in a limited way.

When used in hazardous areas of Zone 2, the WAGO-I/O-SYSTEM 750 offers a safe, easy and economical connection to the sensors and actuators of Zones 0 and 1. The Ex i I/O modules were specially developed for this purpose. They build up an intrinsically safe section, which can be integrated into a standard fieldbus node, offering all the advantages of a state-of-the-art fieldbus technology (e.g., fieldbus independency, flexibility, modularity, programmability, reliability, cost effectiveness).

The WAGO-I/O-SYSTEM 750 is also approved for mining applications.

Additional information at www.wago.com:
Fieldbus Technology for Use in Hazardous Areas