

4-Channel Digital Input Safety Module PROFI-safe V2 iPar

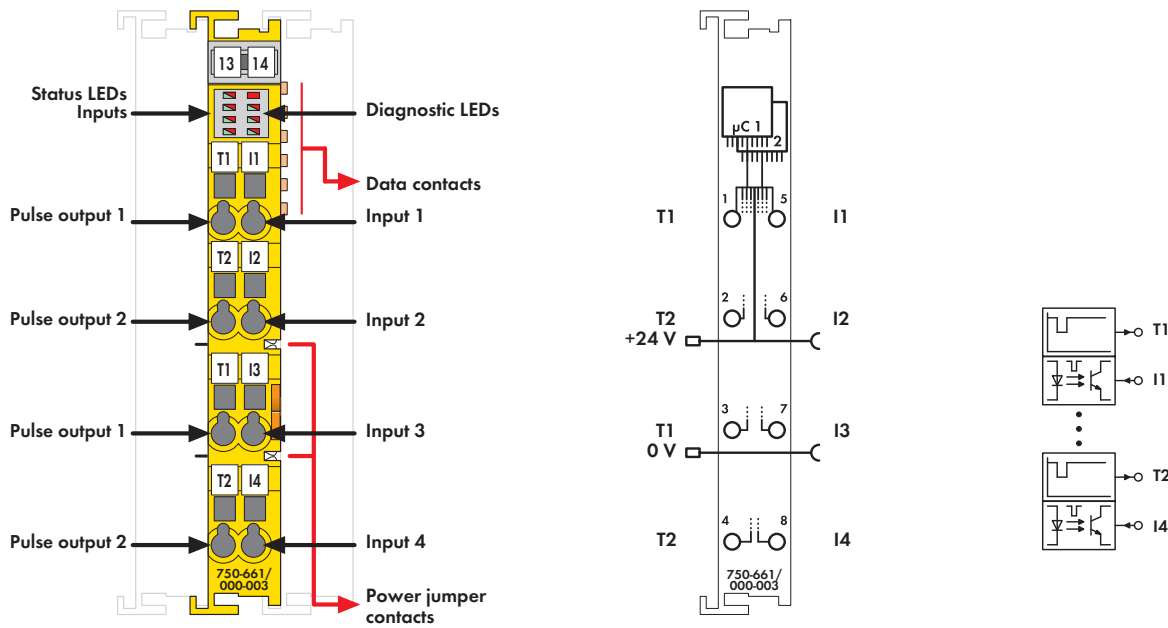



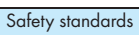






Fig. 750 Series  
Delivered without miniature WSB markers

Both 750-661/000-003 and 753-661/000-003 PROFI-safe Input Modules connect potential-free, emergency-off switches with contacts, protection door switches, mode selectors, safety sensors and semiconductor outputs. The modules have 4 clock-sensitive inputs (I1-I4) fed via 2 differently clocked outputs (T1-T2); clock outputs are short-circuit protected. Inputs are continually monitored for cross circuits and voltage supply from separate sources. Additional safety relevant parameters (e.g., operating modes, switching off test pulses, discrepancy or filter times) can be configured via WAGO-I/O-CHECK. The configuration tool can be conveniently integrated into engineering systems supporting both CC2 and CC3 tool calling interfaces (TCI). When exchanging modules, parameters are automatically downloaded into the control unit via PROFI-safe-compatible iPar server – depending on the

settings. The PROFI-safe address can be set using the DIP switch located on the side of the module, or via WAGO-I/O-CHECK. The modules support both PROFI-safe V1 (PROFIBUS) and V2 (PROFIBUS, PROFINET) protocols. An optocoupler provides electrical isolation between the bus and the field side. Individual I/O modules can be arranged in any combination when configuring the fieldbus node.

**To protect the module against surge voltages (over-voltage protection acc. to IEC 61000-4-5), the 750-626 filter module or an external surge filter must be used to filter the 24V supply voltage. Reference the product manual for further information (available in German and English).**

Description	Item No.	Pack. Unit
4FDI 24V PROFI-safe V2 iPar	750-661/000-003	1
4FDI 24V PROFI-safe V2 iPar (without connector)	753-661/000-003	1
<b>Accessories</b>		
 753 Series connector	753-120	25
 Coding elements	753-150	100
<b>Miniature WSB Quick marking system</b>		
 plain	248-501	5
 with marking	see Section 11	
<b>Standards and Approvals</b>		
Safety standards	IEC 61508, parts 1-7, Edition 2: 2010; EN ISO 13849-1: 2008 + AC: 2009; EN 62061	
Conformity marking	CE	
Korea Certification		
Marine applications	GL	
 UL 508		
 ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4	
 TÜV 07 ATEX 554086 X	I M2 Ex d I Mb, II 3 G Ex nA IIC T4 Gc, II 3 D Ex tc IIIC T135°C Dc	
IECEx TUN 09.0001 X	Ex d I Mb, Ex nA IIC T4 Gc, Ex tc IIIC T135°C Dc	

Technical Data	
<b>Inputs:</b>	
Sensor inputs	I1 ... I4; clock sensitive to T1 ... T2
	Type 1 acc. to IEC61131
Input current (typ.)	2.2 mA
Input frequency (max.)	50 Hz
<b>General specifications:</b>	
Achievable safety classes	SIL 3; Cat. 4, PL e
Voltage supply	5 V system voltage via internal bus
	24 V via power jumper contacts
Voltage via power jumper contacts	24 V DC (20.4 V ... 28.8 V)
Current consumption typ. (internal)	145 mA
Current consumption typ. (field side)	20 mA
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm² ... 2.5 mm² / AWG 28 ... 14
Strip lengths, 750/753 Series	8 ... 9 mm / 0.33 in 9 ... 10 mm / 0.37 in
Width	12 mm
Weight	52.7 g
EMC immunity of interference	acc. to EN 61000-6-2, marine applications
EMC emission of interference	acc. to EN 61000-6-4, marine applications