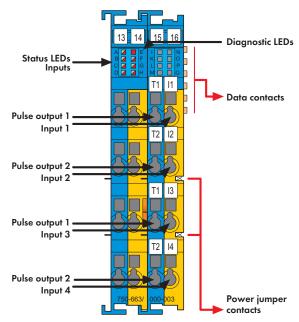
## Intrinsically Safe, 4-Channel Digital Input Module with Inputs for Functional Safety, PROFIsafe V2 iPar







Delivered without miniature WSB markers

The intrinsically safe 750-663/000-003 PROFIsafe input module for functional safety provides risk reductions up to SIL 3, Cat. 4, PL e, and connects to potentialfree, contact-based emergency stop switches, safety door switches, mode selectors, as well as safety sensors, that are located hazardous environments 0, 1 and 2. The fail-safe input module must be located in Zone 2

The input module has 4 clock-sensitive inputs (11 ... 14) that are fed by 2 differently clocked, short-circuit-proof outputs (71 ... 72). Inputs are continually monitored for cross circuits and power supply from separate sources.

Additional safety-relevant functions (e.g., operating modes, switching off test pulses, discrepancy or filter times) can be configured via WAGO-I/O-CHECK.

This configuration tool supports both CC2 and CC3 tool calling interfaces (TCI). When exchanging the module, parameters are automatically downloaded by the controller via PROFIsafe-compatible iPar server – depending on settings. The module supports both PROFIsafe V1 and V2 (PROFIBUS, PROFINET) protocols. Individual I/O modules can be arranged in any combination within the fieldbus node's Ex segment.

The PROFIsafe input module shall only be operated using an Ex i 24 VDC power supply (e.g., 750-606, 750-625/000-001)! General information (e.g., installation regulations) on explosion protection is available in the WAGO-I/O-SYSTEM 750

## Note 2:

Postfach 2880 - D-32385 Minden

Hansastr. 27 - D-32423 Minden

To protect the module against surge voltages (surge protection acc. to IEC 61000-4-5), a filter module (750-626 or 750-624) or an external surge filter must be used upstream of the Ex i 24VDC power supply. Reference the product manual for further information!

Description		Item No.	Pack. Unit
4F Ex i DI 24V PROFIsafe V2 iPar		750-663/000-003	1
Accessories		Item No.	Pack.
			Unit
Miniature WSB C	Quick marking system		_
Commence:	plain	248-501	5
Lucinound	with marking	see Section 11	
shedalam.			

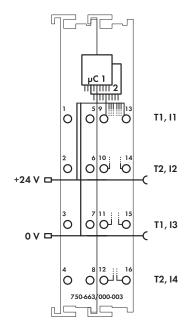
Technical Data	
Inputs:	
Sensor inputs	11 14; clock sensitive to T1 T2
	Type 1 acc. to IEC 61131
Input current (typ.)	3 mA
Input frequency (max.)	50 Hz
Input filter	0 ms 200 ms, configurable in steps
Clock outputs	T1 T2
Output current (max.)	≤ 5 mA
Short-circuit current	≤ 25 mA
General specifications:	
Voltage supply	5 V system voltage via internal bus
Current consumption, system voltage	
typ. (5 VDC)	145 mA
Voltage via power jumper contacts	24 V DC (provided via Ex-i supply
	$U_{\odot} = \text{max. } 27.3 \text{ V}$
Isolation (peak value)	$U_{M} = 375 \text{ V system/supply}$
Line length (max.)	100 m

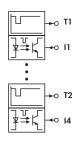
Tel.: +49(0)571/887-0

Fax: +49(0)571/887-169

E-Mail: info@wago.com

www.wago.com





Technical Data	
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm <sup>2</sup> 2.5 mm <sup>2</sup> / AWG 28 14
Strip lengths	8 9 mm / 0.33 in
Width	24 mm
Weight	92 g
EMC immunity of interference	acc. to EN 61000-6-2, marine application
EMC emission of interference	acc. to EN 61000-6-3, marine application
Explosion Protection	
Electric circuit, safety-relevant data	$U_{\circ} = 27.3 \text{ V; } I_{\circ} = 23 \text{ mA; } P_{\circ} = 157 \text{ mW;}$
	Characteristic: Linear
Reactances Ex ia IIC	$L_o = 61 \text{ mH; } C_o = 64 \text{ nF}$
Reactances Ex ia IIB	$L_0 = 100 \text{ mH}; C_0 = 552 \text{ nF}$
Reactances Ex ia I	$L_o = 100 \text{ mH; } C_o = 2.95  \mu\text{F}$
Reactances	(The above-listed ratings do not account
	the coincidental occurrence of
	capacitances and inductances. For rating
	taking the coincidental occurrence of
	capacitances and inductances into
	account, see manual)
	· · · · · · · · · · · · · · · · · · ·
Functional Safety	
Functional Safety  Achievable risk reduction	SIL 3 acc. to IEC 61508:2010;
-	SIL 3 acc. to IEC 61508:2010; SIL 3 acc. to IEC 61511:2005;
-	,
-	SIL 3 acc. to IEC 61511:2005; SIL 3 acc. to IEC 62061:2005;
-	SIL 3 acc. to IEC 61511:2005; SIL 3 acc. to IEC 62061:2005;
-	SIL 3 acc. to IEC 61511:2005; SIL 3 acc. to IEC 62061:2005;
-	SIL 3 acc. to IEC 61511:2005;
-	SIL 3 acc. to IEC 61511:2005; SIL 3 acc. to IEC 62061:2005;
-	SIL 3 acc. to IEC 61511:2005; SIL 3 acc. to IEC 62061:2005;

Standards, Guidelines and Approvals				
Safety standards	IEC 61508;			
carery cramation	IEC 62061;			
	EN ISO 13849;			
	IEC 61511			
Conformity marking	(€			
ATEX Guideline 2014/34/EU	EN 60079-0, -7, -11, -26, -31			
EC EMC guideline 2014/30/EU	2. ( 3 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			
Marine applications	GL			
Marine applications	OL .			
®= E175199 Ordinary Locations				
© TÜV 12 ATEX 106032 X	I M2 (M1) Ex d [ia Ma] I Mb,			
₩ 10V 12 AILX 100032 X	II 3 (1) G Ex ec [ia Ga] IIC T4 Gc,			
	II 3 (1) D Ex to [ia Da] IIIC 1135°C Do			
IECEx TUN 12.0039 X	Ex d [ia Ma] I Mb,			
IECEX TOTA 12.0039 A				
4	Ex ec [ia Ga] IIC T4 Gc,			
® UL E480271 Hazardous Locations	Ex tc [ia Da] IIIC T135°C Dc			
	Cl I Zn 2 AEx nA [ia Ga] IIC T4 Gc			
(Zone classified)	Cl I Zn 2 AEx nA [ia IIIC] IIC T4 Gc			
	Ex nA [ia Ga] IIC T4 Gc X			
0.111510070711	Ex nA [ia IIIC] IIC T4 Gc X			
• UL E198726 Hazardous Locations (Division classified)	Class I, Div. 2, Group A B C D, T4			

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