

Translation

(1) Statement of Conformity

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**



(4) for the product: Block I/O modules type

TB**-L*-(Y)****(-Y****)(*****)
TBIL-M1-(Y)****(-Y****)(*****)
TB**-S*-(Y)****(-Y****)(*****)

(5) of the manufacturer: Hans Turck GmbH & Co. KG

(6) Address: Witzlebenstraße 7

45472 Mülheim an der Ruhr

Germany

Order number: 8003049290

Date of issue: See signature date

- (7) The design of this product and any acceptable variation thereto are specified in the schedule to this EU-Type Examination Certificate and the documents therein referred to.
- (8) TÜV NORD CERT GmbH certifies that the essential health and safety requirements for the design and construction of this product for use in potentially explosive atmospheres in accordance with Annex II of the Directive have been met.

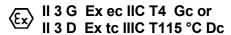
The examination and test results are recorded in the confidential Assessment Report No. 23 214 330379.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018/A11:2024 EN 60079-7:2015/A11:2024 EN 60079-31:2014

except in respect of those requirements listed at item 18 of the schedule.

- (10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions for Use specified in the schedule to this certificate.
- (11) This statement of conformity relates only to the design, examination and tests of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this Statement of Conformity.
- (12) The marking of the product shall include the following:



TÜV NORD CERT GmbH, Am TÜV 1, 45307 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The deputy head of the notified body

Hanover office, Am TÜV 1, 30519 Hannover, Tel. +49 511 998-61455, Fax +49 511 998-61590

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(13) SCHEDULE

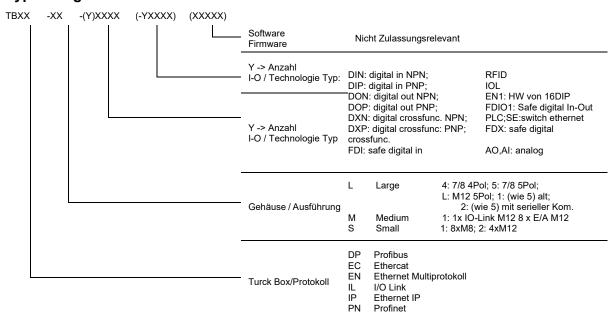
(14) Statement of Conformity TÜV 20 ATEX 264795 X

Issue 03

(15) **Description of product**

The Block I/O modules type TB**-L*-(Y)****(-Y****)(*****), TBIL-M1-(Y)****(-Y****)(*****) and TB**-S*-(Y)****(-Y****)(*****) are used for factory automation and are prepared for fieldbus PROFIBUS-DP, CANopen, Modbus TCP, Ethernet/IP™, PROFINET and Ethercat. The IP67-modules are for use in harsh environments have glass-fiber reinforced plastic housings and metal-connectors, are fully potted, vibration and shock-proof.

Type designation:



The type code for qualified confectioned cables to ensure the tightness of the housing are:

P17-F-012 Rev. 02/11.21 Page 2/6



1. 7/8" and M12 power supply cable:

	Grip B	ody			Cable Length		Wildcard Extension Cable		Cable Quality		
R	K M	4	3	-	5M	-	RSM	/			
а	b c	d	е		f		h				
а	R W	•			straight angled	-		Ali	Alignment		
b	K S				Female Male			De	esign		
	M MV	7.	/8"		Nickel-plated bras Stainless steel	S		Co	oupling nut		
С	P S	N	112		Plastic housing Shielded	Housing					
	4 5	7.	/8"		4-pin, 4-wire 5-pin, 5-wire						
d	46 44 56 54	N	112		4 × 16 AWG 1.5 n 4 × 14 AWG 2.5 n 5 × 16 AWG 1.5 n 5 × 14 AWG 2.5 n	nm² nm²		Pins and wires			
е	3 2	7.	/8"		Sirial number	Sirial number					
	PLA	N	Coded, Design	Coding							
f	M				m			Ca	able Length [m]		
g	blan RSN					Extension cable (Example) Grip Body					
h	blank							St	andard		

2. Ethernet M12 cable:

	G	rip B	ody			Wildcard Extension Cable	Cable Q	uality		Cable Length					
R	S	S	*	D	-	*	-	442	5M						
а	b	С	d	е		f		g h							
a R straight Alignment											t				
b		S			Male Design										
С	S				Sł	nield auf Coupling nut			Shield	ł					
d	k	blanl	<		Standard Flansch Design										
е		D X			D-codiert X-codiert Coding										
f		blan WS:				onnection cable ktension cable (Example) Grip Body	Cable type								
g	44PUR green 4422 84PUR green 88PUR green Cable Quality										ality				
h	hMm Cable Length [m]										ngth [m]				

3. PROFIBUS M12 cable:

		Grip	p Body Wildcard Extension Cable Cable				Cable type/-qualität		Cable Length				
R	S	S	W	V		*	-	451	1	5M			
а	b	С	d	е		f		g	g				
а	R straight W angled							Alignmen	Alignment				
b	S Male Design												
С		S		Shield auf Coupling nut Shield									
d		W			В	-codiert		Coding					
е		blar V	ık			lickel-plated brass tainless steel		Coding	Coding				
f	blank Connection cable WSSD Extension cable (Example) Grip Body Cable type												
g		451 451 PROFIBUS-DP PUR, qualified for drag chain use Cable type/-qualität							ıalität				
h	Mm Cable Length [m]							[m]					



4. RFID M12 cable:

	Grip Body Cable Lengt					Wildcard Extension Cable		Cable Quality		
R	K	4.5T	-	5M	-	RS4.5T	/	S2503		
а	b	С		d		е		f		
а		R W		traight ngled	Alignment					
b		K S	-	emale Iale	Design					
С		4.5T	5	-pin			Pole			
d		M		m			Cable Length [m]			
е		blank RS4.5T	_	Connection cable Extension cable (Ex	Cable type					
f	S2500 PUR, yellow qualified for drag chain use S2503 PUR, black qualified for drag chain use Cable Quality									

5. Sensor M12 cable:

	Grip Body							Cable Length		Wildcard Extension	Cable		Cable Quality		
R	S	S	٧	4.4		Т	-	5m	-	*			TXL		
а	Ь	С	d	е		f		g		h			i		
a R straight W angled									Alignment						
b S Male Design															
	C Standard c S Shield auf Coupling nut Housing H Hygienic design (incl. Stainless steel nut)									sing					
(d	blan V	ank Messing, vernickelt Stainless steel								Coupling nut				
	е	4.4 4.5					•	-wire -wire			Pins and wires				
	f	Т			Sle	e\	/e				Design	1			
(g	M			1	n					Cable	Ler	ngth [m]		
	blank h RWSC4.4T Connection cable Extension cable (Example) Grip Body Cable type							e							
	I TXL PUR, black, halogen-free Cable Quality									ality					

6. M8 cable:

	Grip	Body			Cable Length		Wildcard Extension	Cable		Cable Quality				
Р	K G	S 3	М	-	5m	•	*		/	TXL				
а	b c	d e	f		g		h			i				
а	a P M8/Ø 8 mm									Connector				
b	b S Male Female								1					
С	G straight Alignment Alignment									t				
d	blank Nickel-plated brass V Stainless steel H Hygienic design (incl. Stainless steel nut) S Nut, Nickel-plated brass, shielded								Coupling nut					
е	3 4		3-pin 4-pin					Pins and wires						
f	М		Metr	ic				Lock						
g	M		m					Cable	Ler	ngth [m]				
h	blank PSR4I									Cable type				
i	TXL PUR, black, halogen-free TXG PUR, gray, halogen-free TXO PUR, orange, halogen-free TXY PUR, yellow, halogen-free							ality						



7. Ethernet M8 cable:

	(Grip	Boo	dy Wildcard Extension Cable Cable					Cable Quality		Cable Length		
Р	S	G	*	3	М	-	*	1	4422	/	5M		
а	b	С	d	е	f		g		h i				
а	a P M8/Ø 8 mm									Connector			
b		S				N	/lale		Desi	gn			
С	G straight Alignment Alignment									ent			
d	blank Nickel-plated brass							g nut					
е		3 4					-pin, 3-wire -pin, 4-wire		Pins	Pins and wires			
f		М				Ν	Metric (Lock	Lock			
g		blar PS0	nk G3M	ı			Connection cable Extension cable (Example) Grip Body		/ре				
h	44PUR green 4422 84PUR green Cable Quality 88PUR green							•					
i	iMm Cable Length [m]								ength [m]				

Electrical data:

TB**-L*-(Y)****(-Y****)(*****):

P-switching:

Un =24 VDC ±10 %

 I_{max} (total per module) = 9 A

I_{max} = 1.5 A (per output) DI(P), DOP, DX(P), RFID, IOL, PLC, SE

The electrical data for the Safety-Modules have to be taken from the data sheet.

N-switching:

U_n =24 VDC ±10 %

Imax (total per module) = 9 A

Imax = 1.0 A (per output) DIN, DON, DXN

TBIL-M1-(Y)****(-Y****)(*****):

 U_n =24 VDC ±10 %

 I_{max} (total per module) = 4 A

 I_{max} (per channel DIP, DOP, DXP) = 0.5 A;

for TBIL-M1-16DXP-B variant: I_{max} (per connector) = 1.5 A

TB**-S*-(Y)****(-Y****)(*****)

U_n =24 VDC ±10 %

with digital I/Os:

 I_{max} (total per module) = 5.5 A

 I_{max} (per output) for DIP, DOP, DXP, RFID, IOL = 0.5 A

with analog I/Os:

 I_{max} (total per module) = 5.5A

 I_{max} (C0-C3 Supply of sensors or actuators per connector) = 1 A

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Thermal data:

The permissible ambient temperature ranbe in operation: -25 °C...+60 °C

(16) Drawings and documents are listed in the Assessment Report No. 23 214 330379

(17) Specific Conditions for Use:

- 1. For EPL Gc, the block I/O modules type TB**-L*-(Y)****(-Y****)(*****) may be installed in an area of not more than pollution degree 2 according to IEC 60664-1.
- 2. The connection and disconnection of all live electrical circuits and the operation of switches is only permitted during installation, for maintenance or repair purposes if there is no potentially explosive atmosphere.
 - After setting the switches of the IP address of the block I/O modules of type TB**-L*-(Y)****(-Y****)(*****), the service window must be closed again in order to comply with the IP protection.
- 3. The metallic protective cover must be connected to the potential equalization in the explosion hazardous area.
- 4. The installation of the apparatus must not be performed in areas with critical influence of UV
- 5. The equipment has to be installed in such a way, that, under normal conditions of use, dangers from electrostatic charges are avoided.
- 6. All plug connectors have to be installed; not used connectors have to be protected with blind plugs.

(18) Essential Health and Safety Requirements:

No additional ones.

- End of Statement of Conformity -

P17-F-012 Rev 02/11 21 Page 6/6

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