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TURCK

TN-IOL2-H1141

Read/Write Heads

IO-Link Parameters – IO-Link Version 1.1



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1 About This Manual

This manual describes the parameterization of devices using IO-Link. The manual contains general information on IO-Link and a list of the available parameters.

1.1 Target groups

These instructions are aimed at qualified personal and must be carefully read by anyone mounting, commissioning, operating, maintaining, dismantling or disposing of the device.

1.2 Explanation of symbols used

The following symbols are used in these instructions:



DANGER

DANGER indicates a dangerous situation with high risk of death or severe injury if not avoided.



WARNING

WARNING indicates a dangerous situation with medium risk of death or severe injury if not avoided.



CAUTION

CAUTION indicates a dangerous situation of medium risk which may result in minor or moderate injury if not avoided.



NOTICE

NOTICE indicates a situation which may lead to property damage if not avoided.



NOTE

NOTE indicates tips, recommendations and useful information on specific actions and facts. The notes simplify your work and help you to avoid additional work.



CALL TO ACTION

This symbol denotes actions that the user must carry out.



RESULTS OF ACTION

This symbol denotes relevant results of actions.

1.3 Other documents

Besides this document the following material can be found on the Internet at www.turck.com:

- Data sheet
- Quick Start Guide
- Instructions for use

1.4 Feedback about these instructions

We make every effort to ensure that these instructions are as informative and as clear as possible. If you have any suggestions for improving the design or if some information is missing in the document, please send your suggestions to techdoc@turck.com.

2 Notes on the Product

2.1 Product identification

These instructions apply to the following read/write heads:

- TN-M18-IOL2-H1141
- TN-M30-IOL2-H1141
- TN-Q40-IOL2-H1141

2.2 Turck service

Turck supports you with your projects, from initial analysis to the commissioning of your application. The Turck product database under www.turck.com contains software tools for programming, configuration or commissioning, data sheets and CAD files in numerous export formats.

The contact details of Turck subsidiaries worldwide can be found on p. [▶ 22].

3 Software-Supported IO-Link Parameterization

The ports of the IO-Link master can be configured in IO-Link mode (IOL) or in Standard IO mode (SIO).

If a port is set to SIO mode, the IO-Link master at this port behaves like a normal digital input. The connected IO-Link device transfers its conventional switching output to the IO-Link master – no communication takes place between the device and the IO-Link master.

If the port is configured in IOL mode, the IO-Link master tries to wake the connected IO-Link device via the "Wake-up Request". If the master receives a response from the IO-Link device, both devices start to communicate with each other. The communication parameters are exchanged first of all; the cyclic data exchange of the process data (process data objects) then starts.

When IO-Link communication (IOL mode) is active, both a cyclic and acyclic communication service is available.

There are two ways of setting the parameters via IO-Link:

- via on-request data objects (e.g. close to the PLC via IO-Link function block)
- via tool-based engineering via FDT/DTM (e.g. PACTware with the use of DTM or the IODD)

Device parameters (on-request data objects)

Device parameters are exchanged acyclically and on request of the IO-Link master. The IO-Link master always sends a request to the device first, then the device responds. This applies when the data is written into the device and also when read from the device. On-request data objects (ORDO) enable parameter values to be written into the device (write) or device states to be read from the device (read).

IO-Link configuration in PROFINET

SIDI (Simple IO-Link Device Integration) enables IO-Link devices in PROFINET applications to be configured directly in the programming environment (e.g. TIA Portal). The Turck IO-Link devices are integrated in the GSDML file of the TBEN, TBPN and FEN20 series IO-Link masters and can be set in the programming environment as submodules of a modular I/O system. The user has access here to all device properties and parameters.

4 IO-Link Parameters

4.1 General parameters

Parameter	Content
Vendor ID	317 (0x13D)
Device ID	2162691 (0x210003)
IO-Link version	1.1
Bitrate	COM3
Minimum cycle time	10 ms
SIO supported	True
M-Sequence Capability	PREOPERATE = TYPE_0 with 1 octet on-request data ISDU supported
Block Parameter	False
Data Storage	True
ProfileCharacteristic	

4.2 Process input data

Name	Byte.Bit-offset	Bit length	Subindex access supported	Data Type	Value	Description
Ready Flag	0.7	1	False	Boolean	false/true	On a rising or falling edge: Command executed, new data available
						The edge of the ready bit behaves equivalently to the start bit as soon as data is available.
Error	0.6	1	False	Boolean	false/true	
					false	Command executed
					true	Command executed, error occurred
Tag	0.5	1	False	Boolean	false/true	
					false	No tag
					true	Tag in the field
Antenna State	0.4	1	False	Boolean	false/true	
					false	Antenna off
					true	Antenna on
CMDCPY	0.0	3	False	UInteger	0...5	
					0	None
					1	Auto Read
					2	Auto Write
					3	Read
					4	Write
5	UID					

Name	Byte.Bit-offset	Bit length	Subindex access supported	Data Type	Value	Description
Error code	1.2	6	False	UInteger	1...255	
					1	Command not supported
					2	Format error
					3	Option not supported
					5	Command problem
					6	Comm tag error
					15	Tag error
					16	No memory block
					18	Memory block protected
					27	Read/write mode: Password (index 0x58) does not match the tag password.
30	Indicates a tag communication error.					
255	General error					
ALR2	1.1	1	False	Boolean	false/true	Alarm activated or deactivated
ALR1	1.0	1	False	Boolean	false/true	Alarm activated or deactivated
RSSI	2.0	8	False	UInteger		RSSI signal
ADD	3.0	8	False	UInteger		Start address for the command

Name	Byte.Bit-offset	Bit length	Subindex access supported	Data Type	Value	Description
Data 0	4.0	8	False	UInteger		Read data (LSB...MSB)
Data 1	5.0	8	False	UInteger		
Data 2	6.0	8	False	UInteger		
Data 3	7.0	8	False	UInteger		
Data 4	8.0	8	False	UInteger		
Data 5	9.0	8	False	UInteger		
Data 6	10.0	8	False	UInteger		
Data 7	11.0	8	False	UInteger		
Data 8	12.0	8	False	UInteger		
Data 9	13.0	8	False	UInteger		
Data 10	14.0	8	False	UInteger		
Data 11	15.0	8	False	UInteger		
Data 12	16.0	8	False	UInteger		
Data 13	17.0	8	False	UInteger		
Data 14	18.0	8	False	UInteger		
Data 15	19.0	8	False	UInteger		
Data 16	20.0	8	False	UInteger		
Data 17	21.0	8	False	UInteger		
Data 18	22.0	8	False	UInteger		
Data 19	23.0	8	False	UInteger		
Data 20	24.0	8	False	UInteger		
Data 21	25.0	8	False	UInteger		
Data 22	26.0	8	False	UInteger		
Data 23	27.0	8	False	UInteger		
Data 24	28.0	8	False	UInteger		
Data 25	29.0	8	False	UInteger		
Data 26	30.0	8	False	UInteger		
Data 27	31.0	8	False	UInteger		

4.3 Process output data

Name	Byte.Bit-offset	Bit length	Subindex access supported	Data Type	Value	Description
START	0.7	1	False	Boolean	false/true	On a rising or falling edge: Start of the selected command
Antenna state	0.4	1	False	Boolean	false/true	
					false	Antenna on
					true	Antenna off
CMD	0.0	4	False	UInteger	0...5	
					0	None
					1	Auto Read
					2	Auto Write
					3	Read
					4	Write
					5	UID
NB BLOCK	1.0	3	False	UInteger		Number of memory blocks of the tag for read/write access
ADD	3.0	8	False	UInteger		Start address for the command

Name	Byte.Bit-offset	Bit length	Subindex access supported	Data Type	Value	Description
Data 0	4.0	8	False	UInteger		Write data (LSB...MSB)
Data 1	5.0	8	False	UInteger		
Data 2	6.0	8	False	UInteger		
Data 3	7.0	8	False	UInteger		
Data 4	8.0	8	False	UInteger		
Data 5	9.0	8	False	UInteger		
Data 6	10.0	8	False	UInteger		
Data 7	11.0	8	False	UInteger		
Data 8	12.0	8	False	UInteger		
Data 9	13.0	8	False	UInteger		
Data 10	14.0	8	False	UInteger		
Data 11	15.0	8	False	UInteger		
Data 12	16.0	8	False	UInteger		
Data 13	17.0	8	False	UInteger		
Data 14	18.0	8	False	UInteger		
Data 15	19.0	8	False	UInteger		
Data 16	20.0	8	False	UInteger		
Data 17	21.0	8	False	UInteger		
Data 18	22.0	8	False	UInteger		
Data 19	23.0	8	False	UInteger		
Data 20	24.0	8	False	UInteger		
Data 21	25.0	8	False	UInteger		
Data 22	26.0	8	False	UInteger		
Data 23	27.0	8	False	UInteger		
Data 24	28.0	8	False	UInteger		
Data 25	29.0	8	False	UInteger		
Data 26	30.0	8	False	UInteger		
Data 27	31.0	8	False	UInteger		

4.4 Standard parameters

Name	Index hex. (dec.)	Sub-index hex. (dec.)	Subindex access supported	Access	Byte.	Bit Bit-length	Data Type	Value	Default	Description
Min Cycle Time	0x0 (0)	0x3 (3)	True	read	2.0	8	UInteger			
IO-Link Version ID	0x0 (0)	0x5 (5)	True	read	4.0	8	UInteger		17	
Vendor ID 1	0x0 (0)	0x8 (8)	True	read	7.0	8	UInteger			
Vendor ID 2	0x0 (0)	0x9 (9)	True	read	8.0	8	UInteger			
Device ID 1	0x0 (0)	0xA (10)	True	read	9.0	8	UInteger			
Device ID 2	0x0 (0)	0xB (11)	True	read	10.0	8	UInteger			
Device ID 3	0x0 (0)	0xC (12)	True	read	11.0	8	UInteger			
Standard Command	0x2 (2)	0x0 (0)	True	write	0.0	8	UInteger	0...		System command
								160		
								128		Device Reset
								129		Application Reset
								130		Restore Factory Settings
160		Locate device								
Parameter (write) Access Lock	0xC (12)	0x1 (1)	False	read/write	0.0	1	Boolean	false/true		Device access locks
Data Storage Lock	0xC (12)	0x2 (2)	False	read/write	0.1	1	Boolean	false/true		Device access locks
Local Parameterization Lock	0xC (12)	0x3 (3)	False	read/write	0.2	1	Boolean	false/true		Device access locks
Local User Interface Lock	0xC (12)	0x4 (4)	False	read/write	0.3	1	Boolean	false/true		Device access locks
Vendor Name	0x10 (16)	0x0 (0)	True	read	0.0	16	String		Turck	Vendor name
Vendor Text	0x11 (17)	0x0 (0)	True	read	0.0	24	String		www.turck.com	Additional manufacturer information
Product Name	0x12 (18)	0x0 (0)	True	read	0.0	16	String			Manufacturer's device designation
Product ID	0x13 (19)	0x0 (0)	True	read	0.0	16	String			Ident-No.

Name	Index hex. (dec.)	Sub-index hex. (dec.)	Subindex access supported	Access	Byte. 0.0	Bit length	Data Type	Value	Default	Description
Product Text	0x14 (20)	0x0 (0)	True	read	0.0	512	String		Compact HF IO-Link device	Device category
Serial Number	0x15 (21)	0x0 (0)	True	read	0.0	8	String	00000	001	Device serial number
Hardware Version	0x16 (22)	0x0 (0)	True	read	0.0	5	String	1.0.0		Hardware revision
Firmware Version	0x17 (23)	0x0 (0)	True	read	0.0	5	String	2.2.0		Firmware revision
Application Specific Tag	0x18 (24)	0x0 (0)	True	read/write	0.0	32	String			Any user generated content
Process Data Input	0x28 (40)	0x0 (0)	True	read	0.0	256	Process-DataIn-Union			
Process Data Output	0x29 (41)	0x0 (0)	True	read	0.0	256	Process-Data OutUnion			

4.5 Parameters

Name	Index hex. (dec.)	Sub-index hex. (dec.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
C/Q1 PIN SIO Operating Mode	0x41 (65)	0x1 (1)	False	read/write	0.0	8	UInteger	0...4		
								0	Transponder	
								1	Compare data	
								2	Alarm 1	
								3	Alarm 2	
4	No SIO									
Compare Data Mode - C/Q1 Transponder memory address to read	0x41 (65)	0x2 (2)	False	read/write	1.0	8	UInteger	NaN		
								...	NaN	
Compare Data Mode - C/Q1 value	0x41 (65)	0x3 (3)	False	read/write	2.0	32	UInteger	NaN		
C/Q1 Polarity	0x41 (65)	0x4 (4)	False	read/write	6.0	8	UInteger	0...1		
								0	Output "close" if condition = true	
1	Output "open" if condition = true									
C/Q1 Q2 Output Hold Time	0x41 (65)	0x5 (5)	False	read/write	7.0	8	UInteger	0...5		
								0	Data hold time = 0 ms	
								1	Data hold time = 100 ms	
								2	Data hold time = 200 ms	
								3	Data hold time = 500 ms	
								4	Data hold time = 1000 ms	
5	Data hold time = 2000 ms									
Q2 PIN SIO Operating Mode	0x41 (65)	0x6 (6)	False	read/write	8.0	8	UInteger	0...4		
								0	Transponder	
								1	Compare data	
								2	Alarm 1	
								3	Alarm 2	
4	No SIO									
Compare Data Mode - Q2 Transponder memory address to read	0x41 (65)	0x7 (7)	False	read/write	9.0	8	UInteger	NaN		
								...	NaN	
Compare Data Mode - Q2 value	0x41 (65)	0x8 (8)	False	read/write	10.0	32	UInteger	NaN		

Name	Index hex. (dec.)	Sub-index hex. (dec.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
Q2 Polarity	0x41 (65)	0x9 (9)	False	read/ write	14.0	8	UInteger	0...1		
								0		Output "close" if condition = true
								1		Output "open" if condition = true
RSSI Threshold	0x42 (66)	0x1 (1)	False	read/ write	0.0	8	UInteger	0...7		
								0		0
								1		1
								2		2
								3		3
								4		4
								5		5
								6		6
7		7								
RFU	0x42 (66)	0x2 (2)	False	read/ write	1.0	8	UInteger	NaN ... NaN	1	
RFU	0x42 (66)	0x3 (3)	False	read/ write	2.0	8	UInteger	NaN ... NaN	2	
RFU	0x42 (66)	0x4 (4)	False	read/ write	3.0	8	UInteger	NaN ... NaN	1	
UID	0x43 (67)	0x1 (1)	False	read	0.0	64	UInteger	NaN ... NaN		Data is only available if the tag is located in the detection range and tag info (0x43) is executed.
Transponder DSFID	0x43 (67)	0x2 (2)	False	read	8.0	8	UInteger	NaN ... NaN		DSFID (Data Storage Format Identifier) shows how the data in the tag is structured. Data is only available if the tag is located in the detection range and tag info (0x43) is executed.
Transponder AFI	0x43 (67)	0x3 (3)	False	read	9.0	8	UInteger	NaN ... NaN		AFI (Application Family Identifier) detects the type of application defined by the tag. Data is only available if the tag is located in the detection range and tag info (0x43) is executed.

Name	Index hex. (dec.)	Sub-index hex. (dec.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
Number of blocks	0x43 (67)	0x4 (4)	False	read	10.0	8	UInteger	NaN ... NaN		Number of blocks specifies the number of blocks in the user area of the memory of the tag. The number of blocks is part of the information received by the execution of the Inventory command. Data is only available if the tag is located in the detection range and tag info (0x43) is executed.
Memory block size	0x43 (67)	0x5 (5)	False	read	11.0	8	UInteger	NaN ... NaN		The memory block size specifies the size of the tag. Data is only available if the tag is located in the detection range and tag info (0x43) is executed.
RSSI	0x43 (67)	0x6 (6)	False	read	12.0	8	UInteger	NaN ... NaN		RSSI (Received Signal Strength Indication) specifies the signal strength received by the tag. Data is only available if the tag is located in the detection range and tag info (0x43) is executed.
IC manufacturer code	0x43 (67)	0x7 (7)	False	read	13.0	8	UInteger	NaN ... NaN		The IC manufacturer code specifies the manufacturer of the tag Example: 0x04 = NXP 0x05 = Infineon 0x07 = Texas-Instruments 0x08 = Fujitsu Data is only available if the tag is located in the detection range and tag info (0x43) is executed.
IC reference	0x43 (67)	0x8 (8)	False	read	14.0	8	UInteger	NaN ... NaN		The IC reference specifies the type of IC (manufacturer specific). Data is only available if the tag is located in the detection range and tag info (0x43) is executed.
Tag history 1	0x44 (68)	0x1 (1)	False	read	0.0	64	UInteger	NaN ... NaN		Last read UID tag 1

Name	Index hex. (dec.)	Sub-index hex. (dec.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
Time stamp history 1	0x44 (68)	0x2 (2)	False	read	8.0	64	UInteger	NaN ... NaN		System time at which tag 1 was detected.
Tag history 2	0x44 (68)	0x3 (3)	False	read	16.0	64	UInteger	NaN ... NaN		Last read UID tag 2
Time stamp history 2	0x44 (68)	0x4 (4)	False	read	24.0	64	UInteger	NaN ... NaN		System time at which tag 2 was detected.
Tag history 3	0x44 (68)	0x5 (5)	False	read	32.0	64	UInteger	NaN ... NaN		Last read UID tag 3
Time stamp history 3	0x44 (68)	0x6 (6)	False	read	40.0	64	UInteger	NaN ... NaN		System time at which tag 3 was detected.
Tag history 4	0x44 (68)	0x7 (7)	False	read	48.0	64	UInteger	NaN ... NaN		Last read UID tag 4
Time stamp history 4	0x44 (68)	0x8 (8)	False	read	56.0	64	UInteger	NaN ... NaN		System time at which tag 4 was detected.
Tag history 5	0x44 (68)	0x9 (9)	False	read	64.0	64	UInteger	NaN ... NaN		Last read UID tag 5
Time stamp history 5	0x44 (68)	0xA (10)	False	read	72.0	64	UInteger	NaN ... NaN		System time at which tag 5 was detected.
Measurement alarm 1 configuration	0x47 (71)	0x1 (1)	False	read/write	0.0	8	UInteger	0...1		Alarm
								0		Always OFF
								1		Active
Measurement alarm 1 threshold	0x47 (71)	0x2 (2)	False	read/write	1.0	32	UInteger	NaN ... NaN		Time in ms if the tag is located in the detection range.
Measurement alarm 1 source	0x47 (71)	0x3 (3)	False	read/write	5.0	8	UInteger	0...1		
								0		RSSI
								1		Time in ms if the tag is located in the detection range.
Measurement alarm 2 configuration	0x47 (71)	0x4 (4)	False	read/write	6.0	8	UInteger	0...1		
								0		Always OFF
								1		Active
Measurement alarm 2 threshold	0x47 (71)	0x5 (5)	False	read/write	7.0	32	UInteger	NaN ... NaN		Time in ms if the tag is located in the detection range.

Name	Index hex. (dec.)	Sub-index hex. (dec.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
Measurement alarm 2 source	0x47 (71)	0x6 (6)	False	read/write	11.0	8	UInteger	0...1		
								0	RSSI	
								1	Time in ms if the tag is located in the detection range.	
Function Tag	0x48 (72)	0x1 (1)	False	read/write	0.0	256	String	NaN ... NaN		
Location Tag	0x48 (72)	0x2 (2)	False	read/write	32.0	256	String	NaN ... NaN		
RFID Compatibility:	0x49 (73)	0x1 (1)	False	read	0.0	256	String	NaN ... NaN	13.56 MHz in accordance with ISO15693	
Read-write distance max:	0x49 (73)	0x2 (2)	False	read	32.0	256	String	NaN ... NaN		
Supply voltage range (U _B):	0x49 (73)	0x3 (3)	False	read	64.0	128	String	NaN ... NaN	11...32 VDC	
Max. output current:	0x49 (73)	0x4 (4)	False	read	80.0	128	String	NaN ... NaN	≤ 200 mA	
Ambient temperature range TA:	0x49 (73)	0x5 (5)	False	read	96.0	128	String	NaN ... NaN	-25...+80 °C	
Storage temperature range TS:	0x49 (73)	0x6 (6)	False	read	112.0	128	String	NaN ... NaN	-25...+80 °C	
Enclosure rating:	0x49 (73)	0x7 (7)	False	read	128.0	128	String	NaN ... NaN	IP68 IP69K	
System time IN	0x4A (74)	0x1 (1)	False	read	0.0	64	UInteger	NaN ... NaN	Recorded system time in ms if the tag reaches the detection range.	
System time OUT	0x4A (74)	0x2 (2)	False	read	8.0	64	UInteger	NaN ... NaN	Recorded system time in ms if the tag reaches the detection range.	
Transponder IN range time	0x4A (74)	0x3 (3)	False	read	16.0	64	UInteger	NaN ... NaN	Recorded system time in ms if the tag reaches the detection range.	
Mode	0x58 (88)	0x1 (1)	False	read/write	0.0	8	UInteger	0...2	0	
								0	Inactive	
								1	I-Code SLI family	
								2	EM42... SLI family	

Name	Index hex. (dec.)	Sub-index hex. (dec.)	Subindex access supported	Access	Byte. Bit Offset	Bit length	Data Type	Value	Default	Description
PASSWORD	0x58 (88)	0x2 (2)	False	read/write	1.0	32	UInteger	NaN ... NaN		
Operating time since startup	0x59 (89)	0x1 (1)	False	read	0.0	64	UInteger	NaN ... NaN		
Error counter	0x59 (89)	0x2 (2)	False	read	8.0	32	UInteger	NaN ... NaN		Counts the number of errors since the last start of the read/write head. The counter is reset when the password function is used (SLIX2, EM4233SLIC).
Login counter	0x59 (89)	0x3 (3)	False	read	12.0	32	UInteger	NaN ... NaN		Counts the number of successful tag logins since the last start of the read/write head. The counter is reset when the password function is used (SLIX2, EM4233SLIC).
Login Error counter	0x59 (89)	0x4 (4)	False	read	16.0	32	UInteger	NaN ... NaN		Counts the number of failed tag logins since the last start of the read/write head. The counter is reset when the password function is used (SLIX2, EM4233SLIC).
Power-on cycles	0x59 (89)	0x5 (5)	False	read	20.0	32	UInteger	NaN ... NaN		This counter cannot be reset.

5 Turck Subsidiaries - Contact Information

Germany	Hans Turck GmbH & Co. KG Witzlebenstraße 7, 45472 Mülheim an der Ruhr www.turck.de
Australia	Turck Australia Pty Ltd Building 4, 19-25 Duerdin Street, Notting Hill, 3168 Victoria www.turck.com.au
Belgium	TURCK MULTIPROX Lion d'Orweg 12, B-9300 Aalst www.multiprox.be
Brazil	Turck do Brasil Automação Ltda. Rua Anjo Custódio Nr. 42, Jardim Anália Franco, CEP 03358-040 São Paulo www.turck.com.br
China	Turck (Tianjin) Sensor Co. Ltd. 18,4th Xinghuazhi Road, Xiqing Economic Development Area, 300381 Tianjin www.turck.com.cn
France	TURCK BANNER S.A.S. 11 rue de Courtalin Bat C, Magny Le Hongre, F-77703 MARNE LA VALLEE Cedex 4 www.turckbanner.fr
Great Britain	TURCK BANNER LIMITED Blenheim House, Hurricane Way, GB-SS11 8YT Wickford, Essex www.turckbanner.co.uk
India	TURCK India Automation Pvt. Ltd. 401-403 Aurum Avenue, Survey. No 109 /4, Near Cummins Complex, Baner-Balewadi Link Rd., 411045 Pune - Maharashtra www.turck.co.in
Italy	TURCK BANNER S.R.L. Via San Domenico 5, IT-20008 Bareggio (MI) www.turckbanner.it
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Malaysia	Turck Banner Malaysia Sdn Bhd Unit A-23A-08, Tower A, Pinnacle Petaling Jaya, Jalan Utara C, 46200 Petaling Jaya Selangor www.turckbanner.my

Mexico	Turck Comercial, S. de RL de CV Blvd. Campestre No. 100, Parque Industrial SERVER, C.P. 25350 Arteaga, Coahuila www.turck.com.mx
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Austria	Turck GmbH Graumanngasse 7/A5-1, A-1150 Wien www.turck.at
Poland	TURCK sp.z.o.o. Wroclawska 115, PL-45-836 Opole www.turck.pl
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Russian Federation	TURCK RUS OOO 2-nd Pryadilnaya Street, 1, 105037 Moscow www.turck.ru
Sweden	Turck Sweden Office Fabriksstråket 9, 433 76 Jonsered www.turck.se
Singapore	TURCK BANNER Singapore Pte. Ltd. 25 International Business Park, #04-75/77 (West Wing) German Centre, 609916 Singapore www.turckbanner.sg
South Africa	Turck Banner (Pty) Ltd Boeing Road East, Bedfordview, ZA-2007 Johannesburg www.turckbanner.co.za
Czech Republic	TURCK s.r.o. Na Brne 2065, CZ-500 06 Hradec Králové www.turck.cz
Turkey	Turck Otomasyon Ticaret Limited Sirketi Inönü mah. Kayisdagi c., Yesil Konak Evleri No: 178, A Blok D:4, 34755 Kadiköy/ Istanbul www.turck.com.tr
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