

Your Global Automation Partner



Argentina  
**Aumecon S.A.**  
Munro  
+54 11 47561251 | aumecono@umecon.com.ar

Australia  
**Turck Australia Pty. Ltd.**  
Victoria  
+61 3 95609066 | australia@turck.com

Austria  
**Turck GmbH**  
Wien  
+43 1 4861587 | austria@turck.com

Bahrain  
**Turck Middle East S.P.C.**  
Manama, Bahrain  
+973 13 638288 | middleeast@turck.com

Belarus  
**FEK Company**  
Minsk  
+375 17 2102189 | turck@fek.by

Belgium  
**Multiprox N. V. (TURCK)**  
Aalst  
+32 53 766566 | mail@multiprox.be

Bolivia  
**Centralmatic**  
Cochabamba  
+591 77457805 | dmiranda@centralmatic.net

Brazil  
**Turck do Brazil Ltda.**  
São Paulo  
+55 11 26769600 | brazil@turck.com

Brunei  
**Turck Singapore Pte. Ltd.**  
Singapore  
+65 65628716 | singapore@turck.com

Bulgaria  
**Sensomat Ltd.**  
Dobrich  
+359 58 603023 | info@sensomat.info

Canada  
**Turck Chartwell Canada Inc.**  
Ontario  
+1 905 5137100 | sales@chartwell.ca

Chile  
**Comercializadora EGA Flow Ltda.**  
Santiago de Chile  
+56 9 86619642 | info@egaflow.cl

Chile  
**Seiman S.A.**  
Vina del Mar  
+56 32 2699310 | ventas@seiman.cl

PR of China  
**Turck (Tianjin) Sensor Co. Ltd.**  
Tianjin  
+86 22 83988188 | china@turck.com

Colombia  
**Dakora S.A.S.**  
Chia  
571 8630669 | ventas@dakora.com.co

Costa Rica  
**Turck Inc./USA**  
Minneapolis, MN, USA  
+1 763 5539224 | usa@turck.com

Croatia  
**Tipteh Zagreb d.o.o.**  
Zagreb  
+385 1 3816574 | tipteh@tipteh.hr

Cyprus  
**AGF Trading & Engineering Ltd.**  
Nicosia  
+357 22 313900 | agf@agflect.com

Czech Republic  
**Turck s.r.o.**  
Hradec Králové  
+420 495 518766 | czech@turck.com

Denmark  
**Hans Folsgaard A/S**  
Køge  
+45 43 208600 | hf@hf.dk

Dominican Republic  
**Turck Inc./USA**  
Minneapolis, MN, USA  
+1 763 5537300 | usa@turck.com

Ecuador  
**Bracero & Bracero Ingenieros**  
Quito  
+593 9 7707610 | bracero@bracero-ingenieros.com

Egypt  
**Electric Technology**  
Alexandria  
+20 3 4248224 | electech@electech.com.eg

El Salvador  
**Elektro S.A.**  
El Salvador  
+502 7952-5640 | info@elektroelsalvador.com

Estonia  
**Osauhing „System Test“**  
Tallinn/Estonia  
+37 2 6405423 | systemtest@systemtest.ee

Finland  
**Sarlin Oy AB**  
Vantaa  
+358 10 5504000 | info@sarlin.com

France  
**Turck Banner S.A.S.**  
Magny le Hongre  
+33 0 60436070 | info@turckbanner.fr

Great Britain  
**TURCK BANNER LIMITED**  
Wickford, Essex  
+44 1268 578888 | enquiries@turckbanner.co.uk

Greece  
**Athanasios Greg. Manias**  
Athens  
+30 210 9349903 | info@manias.gr

Guatemala  
**Prysa**  
Guatemala City  
+502 2268-2800 | info@prysaguatemala.com

Honduras  
**Turck Inc./USA**  
Minneapolis, MN, USA  
+1 763 5537300 | usa@turck.com

Hong Kong  
**Hilford Trading Ltd.**  
Hong Kong  
+852 26245956 | hilford@netvigator.com

Hungary  
**Turck Hungary Kft.**  
Budapest  
+36 1 4770740 | hungary@turck.com

Iceland  
**Km Stal HF**  
Reykjavik  
+352 5678939 | kall@kmstal.is

India  
**Turck India Automation Pvt. Ltd**  
Pune 411045  
+91 7768933005 | india@turck.com

Indonesia  
**Turck Singapore Pte. Ltd.**  
Singapore  
+65 65628716 | singapore@turck.com

Iran  
**FNT Faranegar TabrizIrland**  
Tabriz  
+98 4133362670 | www.fntco.com

Iran  
**Dibaco Instrumentation & Control Solutions**  
Teheran  
+98 2844218070 | dbe@dibaco.co

Ireland  
**Elektron Electrical**  
Cork  
+353 21 4313331 | webenquiry@elektron.ie

Israel  
**Robkon Industrial Control & Automation Ltd.**  
Ramat-Ga  
+972 3 6732821 | robkonfr@inter.net.il

Israel  
**Zivan Scientific Instruments Ltd.**  
Ir-Gamin Kiryat Ata  
+972 4 8729822 | gilli@zivan.co.il

Italy  
**Turck Banner S.R.L.**  
Bareggio  
+39 02 90364291 | info@turckbanner.it

Japan  
**Turck Japan Corporation**  
Tokyo  
+81 3 57722820 | japan@turck.com

Jordan  
**Technology Integration**  
Amman-Jordan  
+972 51 4861901 | info@ti.jo

Kenya  
**Westlink Limited**  
Eldoret  
+254 53 2062372/3 | sales@westlinkltd.co.ke

Korea (South)  
**Turck Korea Co. Ltd.**  
Gyeonggi Do  
+82 2 20831630 | korea@turck.com

Kuwait  
**Warba National Contracting**  
South Subhan  
+965 24763981 | sales.wncc@warbagroup.com

Latvia  
**Will Sensors**  
Riga  
+37 1 67718678 | info@willsensors.lv

Lebanon  
**Industrial Technologies (ITEC)**  
Beirut  
+961 1 491161 | support@itecive.com

Lithuania  
**Hidroteka**  
Kaunas  
+370 37 352195 | hidroteka@hidroteka.lt

Luxembourg  
**Multiprox N. V. (Turck)**  
Aalst  
+32 53 766566 | mail@multiprox.be

Macedonia  
**Tipteh d.o.o. Skopje**  
Skopje  
+389 70399474 | tipteh@on.net.mk

Malaysia  
**Turck Singapore Pte. Ltd.**  
Singapore  
+65 65628716 | singapore@turck.com

Mexico  
**Dibaco Comercial, S. de RL de CV**  
Saltillo  
+52 844 4116650 | mexico@turck.com

New Zealand  
**CSE-W Arthur Fisher Limited**  
Auckland  
+64 9 2713810 | sales@cse-waf.co.nz

The Netherlands  
**Turck B. V.**  
Zwolle  
+31 38 4222750 | netherlands@turck.com

Nigeria  
**Milat Nigeria Ltd.**  
Port Harcourt  
+234 80 37236262 | commercial@milat.net

Norway  
**HF Danyko A/S**  
Grimstad  
+47 37090940 | danyko@hf.net

Oman  
**International Business DEVT.**  
Muscat  
+968 24487147 | ibd@ibdman.com

Pakistan  
**Speedy Automation**  
Islamabd  
+92 51 4861901 | speedyisb@speedy.com.pk

Panama  
**Turck Inc./USA**  
Minneapolis, MN, USA  
+1 763 5537300 | usa@turck.com

Peru  
**NPI Peru S.A.C.**  
Lima  
+51 1 2731166 | npiperu@npiperu.pe

The Philippines  
**Turck Singapore Pte. Ltd.**  
Singapore  
+65 65628716 | singapore@turck.com

Poland  
**Turck Sp. z o.o.**  
Opole  
+48 77 4434800 | poland@turck.com

Portugal  
**Bresimar Automação, S.A.**  
Aveiro  
+351 234303320 | bresimar@bresimar.pt

Puerto Rico  
**Turck Inc./USA**  
Minneapolis, MN, USA  
+1 763 5537300 | usa@turck.com

Qatar  
**DOHA MOTORS**  
Dohar  
+974 4651441 | dohamotor@qatar.net.qa

Romania  
**Turck Automation Romania SRL**  
Bucharest  
+40 21 2300279 | romania@turck.com

Russia  
**O.O.O. TURCK Rus**  
Moscow  
+7 495 2342661 | russia@turck.com

Saudi Arabia  
**Binzagr International Trading Co. LTD**  
Al-Khobar  
+966 3 8640980 | avig@bfim.com.sa

Serbia and Montenegro  
**Tipteh d.o.o. Beograd**  
Belgrade  
+381 289 2250 | office@tipteh.rs

Singapore  
**Turck Singapore Pte. Ltd.**  
Singapore  
+65 65 628716 | singapore@turck.com

Slovakia  
**Marpex s.r.o.**  
Dubnica Nad Váhom  
+421 42 4440010 | marpex@marpex.sk

Slovenia  
**Tipteh d.o.o.**  
Ljubljana  
+386 1 2005150 | info@tipteh.si

Spain  
**Elion S. A.**  
Barcelona  
+34 93 2982000 | elion@elion.es

South Africa  
**R.E.T. Automation Controls (Pty.) Ltd.**  
Edenglen  
+27 11 4532468 | sales@retautomation.com

Sweden  
**Turck Office Sweden**  
Västra Frölunda  
+46 10 4471600 | sweden@turck.com

Switzerland  
**Bachofen AG**  
Uster  
+41 44 9441111 | info@bachofen.ch

Taiwan/R.O.C.  
**E-Sensors & Automation Int'l Corp.**  
Kaohsiung  
+886 7 7323606 | ez-corp@umail.hinet.net

Taiwan  
**Jach Yi International Co. Ltd.**  
Opole  
+886 2 27312820 | james.yuan@jachyi.com

Thailand  
**Turck Singapore Pte. Ltd.**  
Singapore  
+65 65628716 | singapore@turck.com

Turkey  
**Turck Otomasyon Tic. Ltd. Şti.**  
Ataşehir/Istanbul  
+90 216 5722177 | turkey@turck.com

Trinidad Tobago  
**Turck Inc./USA**  
Minneapolis, MN, USA  
+1 763 5537300 | usa@turck.com

Ukraine  
**SKIF Control Ltd.**  
Kiev  
+380 44 5685237 | d.startsew@skifcontrol.com.ua

United Arab Emirates  
**Experts e&i**  
Abu Dhabi  
+971 2 5525101 | sales1@experts-ei.com

Uruguay  
**FIEMAR S.A.**  
Montevideo, Uruguay  
+598 2 4021717 | info@fidemar.com.uy

USA  
**Turck Inc.**  
Minneapolis, MN  
+1 763 5537300 | usa@turck.com

Venezuela  
**Cadeci C. A.**  
Valencia, Carabobo  
+58 241 8345667 | cadeci@cantv.net

Vietnam  
**Turck Singapore Pte. Ltd.**  
Singapore  
+65 65628716 | singapore@turck.com

Products and Solutions for Efficient Automation



Germany

**Hans Turck GmbH & Co. KG**  
Witzlebenstraße 7  
45472 Mülheim an der Ruhr  
+49 208 4952-0 | more@turck.com

The Company

Turck is one of the leading manufacturers in industrial automation. With more than 4.000 employees in 28 subsidiaries as well as sales partners in further 60 countries, we are always close to you. As a specialist in sensor, fieldbus, connection and interface technology and also human-machine interfaces (HMI) and RFID systems, we offer efficient solution for factory and process automation. With our state-of-the-art production facilities in Germany, Switzerland, the USA, Mexico and China we, as a family-owned company, are able to react quickly and flexibly to the demands of local markets.

The Industries

No matter if applied in machine and plant construction, in the sectors of automotive, transport and handling, mobile equipment, food and packaging or in the chemical or pharmaceutical industry, automation solutions and products by Turck increase the availability and efficiency of your systems. Moreover, you also lower your costs for purchase, storage, installation and operational safety through effective standardization. Industry-specific knowledge, gained through intensive dialog with customers paired with electronics development and production on highest level, ensure optimal solutions for your automation tasks.

The Service

Based on 50 years of experience and extensive know-how in the field of industrial automation, we support our customers with efficient service, from a first analysis up to tailor-made solutions and commissioning of your application. We aim at enhancing the efficiency and productivity of your production processes and machines continuously. The excellent quality of our products combined with support of our specialists and fast delivery service guarantees you high system availability.

28 subsidiaries and over 60 representations worldwide!



## Collect Precisely

### Inductive uprox<sup>3</sup> sensors

- Highest switching distances and factor 1 for all metals
- Excellent EMC properties and magnetic-field resistance
- Many installation options



### Capacitive sensors

- Compact design
- Failsafe operation
- Resistant to mechanical and chemical loads



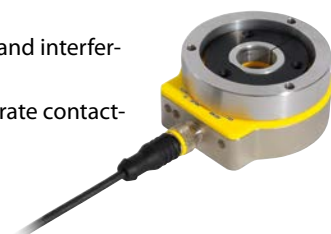
### Ultrasonic sensors

- Large measuring ranges
- Rugged mechanics and front-flush diaphragm
- User-friendly thanks to Easy Teach



### Encoders

- Extensive portfolio of standard devices
- Highest accuracy and interference immunity
- QR24 devices operate contactless and wear-free



### Cabinet Guard IMX12-CCM

- Continuously detects protection grade and environment variables in cabinets and protective housings and monitors their protection grade
- Integrated sensors to measure temperature, humidity and correct door closing
- Easy to install and retrofittable condition monitoring



### NAMUR sensors

- Available in many different designs, sizes and housing materials
- Inductive, capacitive and magnetic field sensors
- Ex approvals and SIL certification



### Magnetic field sensors

- Fit on all types and brands of pneumatic cylinders
- Securely mounted
- Miniature designs



### Photoelectric sensors

- Miniature and compact types, available in all operating modes
- Laser class 1 or 2
- Measuring and inspection tasks, personnel safety (categories 2 and 4)



### Inductive linear position and angle sensors

- Lengths 25 to 1000 mm
- Magnet-free resonator principle for failsafe detection of signals; contactless and wear-free operation
- Adjustable outputs (U/I, SSI, IO-Link, VARAN)



### Vision sensors iVu

- Compact image processing solution for inspection tasks and code reading
- Integrated or external display
- Direct teaching and operation of devices without PC



### Pressure, temperature, flow sensors

- Different designs, measuring principles, and process connection
- Easy handling and mounting
- Highest accuracy and safety also available as EX-i devices



## Connect Reliably



### Cable and connectors

- Connectors – different types and designs
- Ready-made or customizable
- Different cable materials for every application

### Passive junction and T-pieces

- Signal transfer and voltage distribution
- Different wirings
- Different designs



### Inductive coupler

- Contactless transmission of data and power
- Large transmission distance up to 7 mm
- High power transmission (up to 12 W)
- Wear-free transmission of PNP and IO-Link signals



### Interface modules and power supply units

- Modules to isolate, convert, process and condition analog and digital signals
- Available in different standard designs and in various widths
- Innovative accessories: Power supply units, removable terminals, programming adapters



## Communicate Effectively

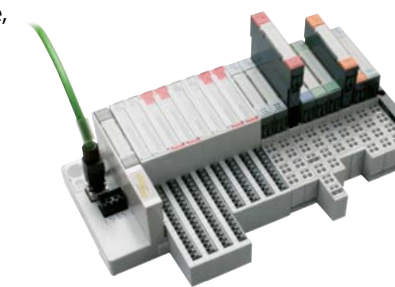
### Compact I/O modules in IP67 and IP20

- Multiprotocol technology for PROFINET, EtherNet/IP and Modbus TCP
- Stainless steel flange for harsh environments
- Fully encapsulated (IP67), vibration and shock tested
- Versions in IP69K
- Different designs with 4 to 16 I/O channels



### Modular I/O system BL20

- Gateways for many different fieldbuses and Ethernet, also available as programmable versions with CODESYS V3
- Multiprotocol technology for PROFINET, EtherNet/IP and Modbus TCP
- I/O modules available as: digital, analog, temperature, RS232/485/422, SSI, RFID
- Economy gateways and I/O modules



### Diagnostic Power Conditioner DPC

- FOUNDATION™ fieldbus modular power supply for simple and redundant applications
- Excellent efficiency and high output power (28 V at 800 mA)
- Network diagnostic for commissioning support and long-term monitoring via FF-HSE, DTM and web interface



### Hybrid safety I/O module TBPn

- Rugged IP65/67/69K module for PROFIsafe and PROFINET
- Flexible use through safety and standard I/Os, as well as IO-Link in one device
- Variably expandable via I/O hubs with up to 32 standard I/Os



### Modular I/O system BL67

- Gateways for many different fieldbuses and Ethernet, also available as programmable versions with CODESYS V3
- Multiprotocol technology for PROFINET, EtherNet/IP and Modbus TCP
- I/O modules available as: digital, analog, temperature, RS232/485/422, SSI, RFID, valve manifolds
- Connectivity: M8, M12, M23 and 7/8"



### I/O-ASSISTANT with FDT/DTM

- Easy system configuration, parametrization and diagnostics via GUI
- DTMs can be integrated in any FDT frame application
- Comprehensive documentation



### Remote I/O excom<sup>®</sup> for zones 1, 2 and non-Ex area

- High system availability through redundant communication and power supply
- Integration in conventional control systems
- FDT technology for easy operation



## Automate Efficiently



### HMI panel with CODESYS PLC

- Easy programming of control and visualization functions with CODESYS V3
- Can be flexibly used as a PROFINET master, EtherNet/IP scanner, Modbus TCP/RTU master or Modbus TCP/RTU slave
- Brilliant 7, 10, or 13-inch TFT displays

### Peripheral control

- CODESYS programmable gateways for the I/O systems BL67 and BL20
- Modularly extendable with all available BL I/O modules
- Also usable as fieldbus or Ethernet slave



### Image processing systems

- Intelligent camera systems for numerous fields of application
- Integrated or external processing unit, IP68 rated types
- Standard and special lighting in all variances



### Compact LED signal indication

- Durable LED technology, made for continuous use 100,000 h (11 years)
- Insensitive to shock, impact, vibration and EMI
- IP67 rated, water and oil-tight, for direct installation in the system



### Pick-to-Light system

- Optical user guidance for manual installation and commissioning processes
- Contactless pick-up alert
- Easy integration into systems via BL20 and BL67 I/O systems



### RFID-System BL ident<sup>®</sup>

- Flexible integration into systems, thanks to the modular concept based on the I/O systems BL67, BL20 and BL compact
- Many application possibilities thanks to mixed HF and UHF operation
- Application-optimized data carriers and read/write heads, also for use in Ex areas



### Wireless system DX

- Flexible network modules for radio transmission of sensor signals
- Point-to-Point connection, star topology, multi-hop repeater network
- Configuration software



### IO-Link

- Fieldbus-neutral communication standard for sensors and actuators
- Easy configuration of devices via control system or FDT/DTM
- IO-Link sensors, I/O Hubs and masters available in various housing style

