




**TURCK**



**PROCESS  
AUTOMATION**



**THE FULL RANGE FOR  
PROCESS  
AUTOMATION**

[www.turck.com](http://www.turck.com)

### Glossary

#### **Abrasion Resistance**

Ability of wire, cable or material to resist surface wear.

#### **ABS**

American Bureau of Shipping. Establishes and administers standards for the design, construction, and operational maintenance of marine vessels and structures.

#### **AC Alternating Current**

Current in which the charge-flow periodically reverses and is represented by:  $I = I_0 \cos(2\pi f + \phi)$  [  $I = I_m \cos(\omega t + \phi)$  ] where  $I$  is the current,  $I_0$  is the amplitude,  $f$  the frequency,  $\phi$  the phase angle.

#### **Active Hub**

A multiple port repeater or amplifier that lengthens the branching ability of a bus.

#### **Address**

A unique logical point on the bus.

#### **Ambient Temperature**

The temperature of a medium (gas or liquid) surrounding an object.

#### **Ampere (A)**

The unit of current. One ampere is the current flowing through one ohm of resistance at one volt potential.

#### **Amplifier**

A product that strengthens a signal in real time, precisely copying the old signal. Links two portions of the same bus together when the signal is weakened by electrical losses as it travels down a wire. An amplifier is used when the signal is weak, but not distorted.

#### **Analogue I/O**

Variable 2-wire continuous low level current or voltage signal.

#### **ANSI**

Abbreviation for American National Standards Institute.

#### **Armored Cable**

A cable provided with a wrapping of metal for mechanical protection.

#### **armorfast®**

TURCK's brand name for a cordset with metal clad cable (NEC type MC)

#### **AWG (American Wire Gauge)**

The standard system used for designating wire diameter. The lower the AWG number, the larger the diameter. Also called the Brown and Sharpe (B&S) wire gauge.

#### **AWM (Appliance Wiring Material)**

A UL designation covering insulated wire and cable for internal wiring of appliances and equipment.

#### **Axial Approach**

The approach of the target with its center maintained on the sensor reference axis.

#### **Axially Polarized Ring Magnet**

A ring magnet whose poles are the two flat sides of the disk. Mounted on pistons for *permaprox*® cylinder position sensing through nonmagnetic cylinder walls.

#### **BA - Bitwise Arbitration**

A form of collision detection on a network. All senders must also be receivers. Bus line must be a specific length or less so all nodes hear the bit at the same time.

#### **Barrier Box**

Limits current voltage to an area.

#### **Binder**

A spirally served tape or thread used for holding assembled cable components in place awaiting subsequent manufacturing operations.

#### **Bit Encoding**

A time reference placed on an electrical or light signal to distinguish high and low bits.

#### **Bit**

One piece of data that means either 'High-Low' or 'ON-OFF'.

#### **Braid**

A fibrous or metallic group of filaments interwoven in cylindrical form to form a covering over one or more wires.

#### **Branch**

One type is a double-sided node that connects two connects two a segments together that are the same protocol but different transmission speeds. The other is a smart repeater that only repeats the data between two bus segments when the source and destination are in different protocols.

#### **Bus Junction**

TURCK's designation for a Connectorized passive hub.

#### **Bus Module**

TURCK's designation for any field node, whether it uses terminal screws, connectors, or a combination of connecting means.

#### **Bus Occupant**

Any active or passive device on a network.

#### **Bus Station**

TURCK's designation for a fully Connectorized field node, but not a master or gateway.

#### **Bus**

A simple straight-line topology.

#### **Busline**

Any group of wires that carries data from node to node.

#### **Byte**

8 bits of information.

#### **Cable**

A stranded conductor with or without insulation and other coverings (single-conductor cable), or a combination of conductors (multiple-conductor cable).

#### **Capacitive Proximity Sensor**

A proximity sensor producing an electrostatic field that senses conductive targets and nonconductive materials having a dielectric constant of >1 within its sensing zone.

#### **Carrier**

The bit encoded signal carrying the data can ride on top of an AC or DC carrier. Advantages to using a carrier are that both power and data can be sent on just 2 wires and longer transmission capabilities without distortion.

#### **CD - Collision Detection**

A form of collision detection on a network. All senders must also be receivers. If two nodes start talking at the same time they will hear a collision. Both stop talking, wait a random amount of time, then look for a clear line to start talking again.

#### **Checksum**

A numerical representation of all the bits that is prepared by the sender and included in the message. The receiver performs the same calculation and compares the results. If they are not equal the data is considered bad and not used.

#### **Client/Server**

Upload/download information, set point changes, alarm management, remote diagnostics and one-to-one communications.

#### **Color Code**

Wire or circuit identification by color, utilizing solid colors, tracers, braids, surface printing, etc.

#### **Complementary Output**

Two outputs, one N.O. and one N.C., that can be used simultaneously. **The sum of both load currents cannot exceed the sensor's rated Continuous Load Current.**

#### **Conductivity**

The ability of a material to allow electrons to flow, measured by the current per unit of voltage applied. It is the reciprocal of resistivity.

#### **Conductor**

A wire (or combination of wires not insulated from one another) suitable for carrying electric current.

#### **Conduit**

A tube or trough in which insulated wires and cables are run.

#### **Connector**

A device used to provide rapid connect / disconnect service for electrical cable and wire terminations.

#### **Contact Holder**

Insulating device that holds the contacts in their proper position

#### **Contact**

The parts of a connector that actually carry the electrical current and that are touched together or separated to control the flow.

#### **Continuous Load Current**

The maximum current allowed to continuously flow through the sensor output in the ON state.

#### **Cord**

A small, flexible insulated cable.

#### **Cordset**

Portable cord fitted with a wiring device at one or both ends.

#### **Correction Factors**

Percentage of the rated operating distance (Sn) that represents the operating distance for targets constructed from materials other than mild steel (mild steel's correction factor is 1.0).

#### **CPE (Chlorinated Polyethylene)**

A flexible material with high tear strength and good resistance to most inorganic chemicals. It is inherently difficult to ignite. A Thermoset plastic.

#### **Creepage**

The conduction of electricity across the surface of a dielectric.

#### **Crimp Termination**

A connection in which a metal sleeve is secured to a conductor by mechanically crimping the sleeve with pliers, presses or automated crimping machines.

#### **Current (I)**

The rate of transfer of electricity. Practical unit is the ampere, which represents the transfer of one coulomb per second. In a simple circuit, current (I) produced by a cell or electromotive force (E) when there is an external resistance (R) and internal resistance (r) is:  $I = E / (R + r)$

#### **Current Carrying Capacity**

The maximum current an insulated conductor can safely carry without exceeding its insulation and jacket temperature limitations.

#### **Cut-Through Resistance**

The ability of a material to withstand mechanical pressure, usually a sharp edge or small bending radius, without separation.

#### **Dielectric Strength**

The voltage that an insulator can withstand before breakdown occurs. Usually expressed as a voltage gradient (such as volts per mil).

#### **Differential Travel (Hysteresis)**

The difference between the operating point as the target approaches the sensor face, and the release point as the target moves away. Given as a percentage of the operating distance (Sn).

#### **Direct Current (DC)**

An electric current that flows in only one direction.



### Discrete I/O

Signaling where the supply is typically switched to designate a change of state.

### DNV

Det Norske Veritas. Management system certification body.

### Drain Wire

In a cable, the bare wire laid over the component or components and used as a ground connection.

### Dropline

A reduced branch (spur) from a trunk line.

### Dynamic Output

A sensor output that stays energized for a set duration of time, independent of the time the target is present (one-shot).

### Earth

British terminology for zero-reference ground.

### EDS - Electronic Data Sheet

Electronically readable ASCII text files that contain both general and device-specific parameters for communication and network configuration (DeviceNet™).

### EIA RS-485

A standard that defines the number of signal generators (the components that create the signal), the receiver and a combination of the called a transceiver. It also defines the electrical signal.

### Embeddable (Shielded) Proximity Sensor

A sensor that can be flush-mounted in any material without that material influencing the sensing characteristics.

### End of Message

Lets other occupants of the bus know the transmission is over and other messages can be sent.

### EPDM

Ethylene-propylene-diene monomer rubber. A material with good electrical insulating properties. A Thermoset plastic.

### eurofast®

M12x1 threads, single key, 2 - 6, 8, 10, 12-pin

### Explicit Message

A command from another node.

### Exposed Run/Direct Burial

Cable construction meeting the crush and impact requirements of metal clad cables without metal clad. For use as exposed wiring between cable tray and equipment.

### extremelife™

Heavy duty cable for extreme temperature environments. These cables provide excellent resistance to extreme cold temperatures and oilfield drilling muds.

### Extruded Cable

Cable with conductors that are uniformly insulated and formed by applying a homogeneous insulation material in a continuous extrusion process.

### Fillers

Non-conducting components cabled with the insulated conductors or optical fibers to impart roundness, flexibility, tensile strength, or a combination of all three, to the cable.

### firefast®

High temperature protective sleeving.

### FKS - Frequency Shift Key

A common bit encoding method for modulated signals.

### flexlife-10®

Unique cable designed for robotic and other continuous motion applications.

### Free Zone

The space around a proximity sensor that must be kept free of any material capable of affecting the sensing characteristics.

### Gateway

A node on two different buses that serves as a signal and data translator between the buses.

### Ground Loop

A completed circuit between shielded pairs of a multiple pair created by random contact between shields. An undesirable circuit condition in which interference is created by ground currents when grounds are connected at more than one point.

### Ground Potential

The potential of the earth. A circuit, terminal or chassis is said to be at ground potential when it is used as a reference point for other potentials in the system.

### Ground

An electrical connection to the earth, generally through a ground rod. Also a common return to a point of zero potential, such as the metal chassis of equipment.

### GSD - General Station Description

Electronically readable ASCII text files that contain both general and device-specific parameters for communication and network configuration (PROFIBUS).

### HART

Two-way digital communication protocol for process measurement.

### Hygroscopic

Capable of absorbing moisture from the air.

### IEC

European Standardization agency; International Electrotechnical Commission.

### IEEE

Institute of Electrical and Electronics Engineers

### Inductive Magnet Operated Sensor (permaprox®)

A solid-state sensor consisting of a sensing element susceptible to magnetic field strengths of 20-350 Gauss, and switching circuitry similar to that of an inductive proximity sensor.

### Inductive Proximity Sensor

A proximity sensor producing an electromagnetic field that senses only metal targets within its sensing zone.

### Input

A signal (or power) which is applied to a piece of electrical apparatus or the terminals on the apparatus to which a signal or power is applied.

### Inrush Current

The maximum short-term load current that the output of a sensor can tolerate.

### Insulation

A material having good dielectric properties that is used to separate close electrical components, such as cable conductors and circuit components.

### IP Rating

Ingress Protection rating per IEC 529.

### Irradiation

In insulation, the exposure of the material to high-energy emissions for the purpose of favorably altering the molecular structure.

### ITC

Instrument Tray Cable. NEC classification for cable resistant to the spread of fire and suitable for use in cable trays. 150 V rating.

### Jacket

Pertaining to wire and cable, the outer protective covering, may also provide additional insulation.

### LAS - Link Active Scheduler

Controls communication on the bus. Creates a token circulation list that defines access on the bus. Multiple devices may have LAS but only one can communicate at a time.

### Lateral Approach

The approach of a target perpendicular to the sensor reference axis.

### LED

Light Emitting Diode used to indicate device status.

### Limited Peer-to-Peer

An exclusive one-to-one relationship between the input node and the output node. Also called exclusive peer-to-peer.

### Line Voltage

The value of the potential existing on a supply or power line.

### Load

A device that consumes power from a source and uses that power to perform a function.

### lokfast™ Guard

Guards for minifast and eurofast connections in hazardous locations. The guard requires a tool to remove.

### M Threading

ISO 68 Metric straight threading, designated as "Nominal Size" X "Pitch", in mm. (Ex. M5X0.5)

### Manchester

A common bit encoding for digital signals.

### MC

Metal Clad Cable. NEC classification for cable resistant to crush and impact based on an outer covering of metal.

### Media Access

The "right-of-way" for talking on the bus.

### Message Collision Avoidance

A process for eliminating communication collisions on a network. The two major ways to handle a potential collision are CD (Collision Detection) and BA (Bitwise Arbitration).

### Messaging

Ways to communicate on the network. The three major types in the run mode are Solicited, Unsolicited and Explicit.

### microfast®

1/2"-20UNF threads, dual key, 2 - 6-pin

### microfast®

1/2"-20UNF threads, dual key, 2 - 6 pin

### minifast®

7/8"-16UN threads, 2 - 6-pin

### minifast B size

1"-16UN threads, 6 - 8 pin

### minifast C size

1 1/8"-16UN threads, 9, 10, 12-pin

### Minimum Load Current

The minimum amount of current that is required by the sensor for reliable operation.

### Moisture Resistance

The ability of a material to resist absorbing moisture from the air or from water when immersed.

### Molded Plug

A connector molded onto either end of a cord or cable.

### MOV

Acronym for Metal Oxide Varistor. A solid state device used to suppress voltage surges \ spikes

### MSHA

Mine Safety and Health Administration

### multibox®

Junction boxes, 4, 6, 8 and 16 port

### Glossary

**multifast**

M23x1 threads, 12, 16 and 19-pin or M27 threads, 26 and 28-pin

**Mylar**

DuPont trademark for polyester film.

**NAMUR Sensor**

A 2-wire variable-resistance DC sensor whose operating characteristics conform to DIN 19 234. Requires a remote amplifier for operation. Typically used for intrinsically safe applications.

**NAMUR**

The acronym for a European standards organization.

**National Electrical Code (NEC)**

A set of regulations governing construction and installation of electrical wiring and apparatus in the United States, established by the American National Board of Fire Underwriters.

**NEMA Rating**

An enclosure rating per NEMA Standard 250.

**NEMA**

National Electrical Manufacturers Association.

**Neoprene**

A synthetic rubber with good resistance to oil, chemical, and flame. Also called polychloroprene. A Thermoset plastic.

**Node**

An addressable device on the bus.

**Noise**

In a cable or circuit, any extraneous signal that tends to interfere with the signal normally present in or passing through the system.

**No-Load Current**

The current drawn by a DC proximity sensor from the power supply when the outputs are not connected to a load.

**Nonembeddable (Nonshielded) Proximity Sensor**

A sensor is nonembeddable when a specified free zone must be maintained around its sensing face in order not to influence the sensing characteristics.

**Normally Closed (N.C.)**

The output is OFF when the target is detected by the sensor.

**Normally Open (N.O.)**

The output is ON when the target is detected by the sensor.

**NPN Output (Current Sinking)**

A transistor output that switches the common or negative voltage to the load. Load is between sensor and positive supply voltage.

**NPN Output**

Transistor output that switches the common or negative voltage to the load (current sinking). Load connected between output and positive supply.

**NPSM Threading**

American National Standard Straight Pipe Thread for Free-Fitting Mechanical Parts.

**NPT Threading**

American National Standard Taper Pipe Thread.

**NRZ - Non Return to Zero**

An encoding method on differential signals such as RS-485 and CANbus.

**Off-State (Leakage) Current**

The current that flows through the load circuit when the sensor is in the OFF-state. Also known as leakage or residual current.

**Ohm ( $\Omega$ )**

The electrical unit of resistance. The value of resistance through which a potential difference of one volt will maintain a current of one ampere.

**Ohm's Law**

$E = I \times R$ . Voltage (E) is directly proportional to the product of current (I) and resistance (R) of circuit.

**Operating Distance**

A distance at which the target approaching the sensing face along the reference axis causes the output signal to change.

**Output**

The useful power or signal delivered by a circuit or device.

**Overload Protection**

The ability of a sensor to withstand load currents between continuous load rating and short-circuit condition with no damage.

**PA (Polyamide, Nylon)**

An abrasion-resistant thermoplastic with good chemical resistance, also known as polyamide.

**Passive Hub**

A multi-port tee.

**pentafast<sup>®</sup>**

M5 threads, 3 and 4-pin

**PG Threading**

Steel conduit threading per German standard DIN 40 430.

**picofast<sup>®</sup>**

Snap lock or M8x1 threads, 3, 4 and 6-pin

**Plastic**

High-polymeric substances, including both natural and synthetic products, but excluding the rubbers, that are capable of flowing under heat and pressure.

**PLTC**

Power Limited Tray Cable. NEC classification for cable resistant to the spread of fire and suitable for use in cable trays. 300 V rating.

**Plug**

A connector associated with being attached to a cable.

**PNP Output (Current Sourcing)**

Transistor output that switches the positive voltage to the load. Load is between sensor and common.

**PNP Output**

Transistor output that switches the positive voltage to the load (current sourcing). Load connected between output and common.

**POM (Polyoxymethylene, Acetal, Delrin)**

Polyoxymethylene - a crystalline thermoplastic polymer with a high melting point. It is suitable for mechanical parts or electrical insulators that require structural strength at above normal temperatures.

**Potting**

The sealing of a cable termination or other component with a liquid that thermosets into an elastomer.

**Power Conditioner**

Device used to condition the power to be used for a bus segment. Allows power and data to exist on the same wires.

**Power Tap**

A tee which provides power to the network.

**powerfast<sup>®</sup>**

1 3/8"-16 threads, 2, 3 and 4 pin or M23 threads, 6, 7 and 9 pins.

**Programmable Output**

Sensor output whose N.O. or N.C. function can be selected by means of a jumper or specific terminal connection.

**Protocol**

A small program that is embedded in sending and listening devices to organize the meaning of bits. DeviceNet, AS-interface, PROFIBUS, Ethernet, etc. are all examples of different protocols.

**Publisher / Subscriber**

Scheduled distribution of data to nodes on the subscriber list.

**PUR (Polyurethane)**

Broad class of polymers noted for good abrasion and solvent resistance.

**PVC (Polyvinyl Chloride)**

A general-purpose thermoplastic widely used for wire and cable insulation and jackets.

**Radially Polarized Ring Magnet**

A ring magnet whose poles are the inner and outer diameter rings.

**Rated Operating Distance (Sn)**

A conventional quantity used to designate the operating distance. It does not take into account either manufacturing tolerances or variations due to external conditions such as voltage and temperature.

**Reference Axis**

An axis perpendicular to the sensing face and passing through its center.

**Repeatability**

The difference between actual operating distances measured at a constant temperature and voltage over an 8-hour period. It is expressed as a percentage (%) of rated operating distance (Sn).

**Repeater**

Strengthens the bus signal by producing a fresh signal without distortions. It also links two portions of the same bus together. A repeater is used when the signal is weak or distorted.

**Resistance (R)**

A measure of the difficulty in moving electrical current through a medium when voltage is applied. It is measured in ohms.

**Response frequency**

The maximum rate that the output can change in response to the input and still maintain linearity.

**Response Time**

The time required for the device switching element to respond after the target enters or exits the sensing zone.

**Retractile Cord**

A cord having a specially treated jacket or insulation so that it will retract like a spring. Retractility may be added to all or part of a cord's length.

**Reverse Polarity Protection**

Internal components that keep the sensor from being damaged by incorrect polarity connection to the power supply.

**Ring**

A network topology where every node is also a repeater. Information comes into a node, information that pertains to that node is read, new information is added and the message is sent on to the next node.

**Ripple**

The alternating component remaining on a DC signal after rectifying, expressed in percentage of rated voltage.

**RoHS**

Restriction of Hazardous Substances

**Router**

A higher level bridge for connection of wide area networks.

**RTD**

Resistance Temperature Detector

**Rubber**

A general term used to describe wire insulation made of thermosetting elastomers, such as natural or synthetic rubbers, neoprene, Hypalon, CPE butyl rubber and others.

### Scanner Module

Allen-Bradley's designation for the gateway that plugs into their PLC and interfaces the PLCs bus to the network.

### Sensing Face

The surface of the proximity sensor through which the electromagnetic (or electrostatic) field emerges.

### Serial Data Communication

"ON-OFF" or "HIGH-LOW" electrical signals.

### Serial Data Transfer

Information transmitted one piece at a time in a specific order.

### Serve

A filament or group of filaments such as fibers or wires, wound around a central core.

### Shield

In cables, a metallic layer placed around a conductor or group of conductors to prevent electrostatic or electromagnetic interference between the enclosed wires and external fields.

### Shielded twisted pair

Two conductors twisted together with a metallic covering.

### Short-Circuit Protection

The ability of a sensor to withstand a shorted condition (no current-limiting load connected) without damage.

### Signal

Any visible or audible indication that can convey information. Also, the information conveyed through a communication system.

### Simple Device

Anything that does not have LAS capabilities.

### SJOOW

Junior hard service, rubber insulated, portable cord with oil resistant rubber outer jacket. Stranded copper conductors with separator and individual oil and water resistant rubber insulation. Two or more color coded conductors cabled with filler, wrapped with separator and rubber jacketed overall. 300 V.

### Slew Rate

The rate of change of the output voltage with respect to a step change in input. A change in output of 0 to 10 volts at a slew rate of 1.25 V/ms would take 8 ms to slew to the new value.

### Solicited Message

A response to another node or a response when it is the node's predetermined time to speak.

### Solid Conductor

A conductor consisting of a single wire.

### Solid State

Pertains to circuits and components using semiconductors without moving parts. Example: transistors, diodes, SCR, etc.

### SOOW

Heavy duty, rubber-insulated portable cord with oil resistant rubber outer jacket. Stranded copper conductors with separator and individual oil and rubber insulation. Two or more color-coded conductors cabled with filler, wrapped with separator and rubber jacketed overall. 600 V.

### Spanner

TURCK's designation for a double-sided slave node. Unit has bi-directional data from one control area segment to another in a free form format.

### Star

Bus lines radiate from a single point.

### Start of Message

A certain number of high bits that start a message. These consecutive bits allow the listener time to prepare to receive the data.

### Static Output

A sensor output that stays energized as long as the target is present.

### STOW

Heavy duty, PVC insulated, portable cord with oil resistant PVC outer jacket. Stranded copper conductors, PVC insulation. Two or more color coded conductors cabled with filler, wrapped with separator and PVC jacketed overall. Approved for outdoor use. 600 V.

### Stranded Conductor

A conductor composed of groups of wires twisted together.

### Switching Frequency

The maximum number of times per second that the sensor can change state (ON and OFF) under ideal conditions, usually expressed in Hertz (Hz).

### System Tee

A field wireable tee.

### Tee

Creates a branch or drop from a bus.

### Temperature Rating

The maximum temperature at which a material may be used in continuous operation without loss of its basic properties.

### Terminating Resistor

A resistor that is put at the beginning and end of the main bus line to stabilize and minimize reflections.

### Thermoplastic

A material that will soften, flow or distort appreciably when subjected to heat and pressure.

### Thermoset

A material that hardens or sets when heat is applied, and which, once set, cannot be re-softened by heating. The application of heat is called "curing".

### Time-Delay Before Availability

The length of time after power is applied to the sensor before it is ready to operate correctly, expressed in milliseconds (ms).

### Topology

A bus term that describes how the data lines connect the nodes together.

### TPE

Thermo Plastic Elastomer. Broad class of polymers noted for flexibility and weld slag resistance.

### TPR

Thermo Plastic Rubber. Another name for TPE.

### Trunk line

The main bus line.

### Twisted Pairs

A cable composed of two small, insulated conductors twisted together without a common covering.

### Unlimited Peer-to-Peer

Output node gets information from several input nodes.

### Unsolicited Message

A response to a change-of-state at the node.

### Uprox Sensor<sup>®</sup>

An inductive proximity sensor that detects all metals at the same range. Uprox sensors are inherently weld-field immune, operate over a wider temperature range and have a higher switching frequency than standard inductive sensors.

### V\*fast<sup>®</sup>

DIN 43650, type A, B, I and C

### VDE

German approval agency.

### versafast<sup>™</sup>

M16 threads, 5, 6, 7, 8, 12, 14 and 19 pin

### Versafast<sup>™</sup>

M16 threads, 5, 6, 7, 8, 12, 14 and 19 pin

### Volt (V)

A unit of electrical pressure. One volt is the electrical pressure that will cause one ampere of current to flow through one ohm of resistance.

### Voltage Rating

The highest voltage that may be continuously applied to a wire in conformance with standards or specifications.

### Voltage

The term most often used in place of electromotive force, potential difference, or voltage drop. Designates the electric pressure existing between two points that is capable of producing a current when a closed circuit is connected between these points.

### VW-1

A flammability rating established by Underwriters Laboratories for wires and cables that pass a specially designed vertical flame test, formerly designated FR-1.

### Weld-Field Immunity (WFI)

The ability of a sensor not to false-trigger in the presence of strong magnetic fields typically produced by resistance welders.

### Wicking

The longitudinal flow of a liquid in a wire or cable due to capillary action.

### Wire-Break Protection

Results in the output being OFF on a DC sensor if either supply wire is broken.

### Word

2 bytes.

# TURCK

## Process Automation Products

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WSC RKFP 57x-*M . . . . .	J88	WSM WKM 57x-*M . . . . .	J87	XN-KLBU/S (10/PKG) . . . . .	C62
WSC RSFP 25x-*M . . . . .	G114	WSM WSC 25x-*M . . . . .	G114	XN-KLBU/T (10/PKG) . . . . .	C62
WSC RSFP 57x-*M . . . . .	J88	WSM WSC 57x-*M . . . . .	J88	XN-K0/10 . . . . .	C61
WSC WKC 25x-*M . . . . .	G114	WSM WSM 25x-*M . . . . .	G113	XN-K0/11 . . . . .	C61
WSC WKC 57x-*M . . . . .	J88	WSM WSM 57x-*M . . . . .	J87	XN-K0/12 . . . . .	C61
WSC WSC 25x-*M . . . . .	G114	WSSW 45x-*M . . . . .	H53	XN-K0/13 . . . . .	C61
WSC WSC 57x-*M . . . . .	J88	WSSW D9S WKS45x-*M-*M . . . . .	H56	XN-K0/14 . . . . .	C61
WSC-2VBWK-WKC-57-DCL . . . . .	J147	WSSW D9S WSSW 45x-*M-*M . . . . .	H56	XN-K0/16 . . . . .	C61
WSCN 5T-* . . . . .	K182	WSSW D9S/T 45x-*M . . . . .	H55	XN-K0/17 . . . . .	C61
WSCV 48x-*M . . . . .	H70	WSSW D9SM/T 45x-*M . . . . .	H55	XN-K0/2 . . . . .	C61
WSCV 49x-*M . . . . .	E18	WSSW RKS45x-*M . . . . .	H53	XN-K0/6 . . . . .	C61
WSCV FKFDV 48x-*M . . . . .	H70	WSSW SD9S WKS45x-*M-*M . . . . .	H56	XN-K0/8 . . . . .	C61
WSCV FKFDV 49x-*M . . . . .	E18	WSSW SD9S WSSW 45x-*M-*M . . . . .	H56	XN-K0/9 . . . . .	C61
WSCV FSFDV 48x-*M . . . . .	H70	WSSW WKS45x-*M . . . . .	H53	XN-PS2-CABLE . . . . .	C62



XN-QV/1 . . . . .	C61
XN-QV/2 . . . . .	C61
XN-QV/3 . . . . .	C61
XN-QV/4 . . . . .	C61
XN-QV/5 . . . . .	C61
XN-QV/6 . . . . .	C61
XN-QV/7 . . . . .	C61
XN-QV/8 . . . . .	C61
XN-WEW-35/2-SW . . . . .	C62
ZBW5-2 . . . . .	C62

# TURCK

## Process Automation Products

### REGISTRATION INSTRUCTIONS

(TO BE COMPLETED BY THE END USER OF THE SENSORS)  
THIS INFORMATION WILL BE KEPT IN STRICT CONFIDENCE

STEP 1: Please make a Photocopy of this form.

STEP 2: Fill in all information below.

STEP 3: Line 13 (to put this warranty into effect, it must be validated by the signature of the End-User and an authorized **TURCK** Distributor or Representative.

STEP 4: Return this Registration to **TURCK** (keep a copy for your records).

Date: \_\_\_\_\_

### LIFETIME WARRANTY REGISTRATION (INDUCTIVE, INDUCTIVE MAGNET & CAPACITIVE SENSORS ONLY)

Please Print  
End User

1. Company Name: \_\_\_\_\_

2. Division: \_\_\_\_\_ Dept: \_\_\_\_\_

3. Address: \_\_\_\_\_

4. City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

5. Phone: ( ) \_\_\_\_\_ Your Name: \_\_\_\_\_  
Your Title: \_\_\_\_\_

6. Industry (Type of Product Manufactured or Service Performed at this Location): \_\_\_\_\_

7. Approx. Date Purchased: \_\_\_\_\_

8. Approx. Date Installed: \_\_\_\_\_

9. What is the General Application for this Product? \_\_\_\_\_

10. Which OEM Supplied the Mechanical Equipment on which the Sensors are Installed?

Name: \_\_\_\_\_ Location: \_\_\_\_\_

11. <b>TURCK</b> Sensors Installed: Catalog Number	Approx. Quantity
---	---------------------

_____	_____
_____	_____
_____	_____
_____	_____

12. Why were **TURCK** Sensors Specified for this Application? \_\_\_\_\_

13. Distributor or Representative Signature: \_\_\_\_\_

Company Name: \_\_\_\_\_ Date: \_\_\_\_\_

End User Signature: \_\_\_\_\_ Date: \_\_\_\_\_

14. **Return to USA:**  
**TURCK Inc.**  
3000 Campus Drive  
Minneapolis, MN. 55441  
Attn: Warranty Department  
Phone: (763) 553-7300  
Fax: (763) 553-0708

**Return to Canada:**  
**CHARTWELL ELECTRONICS, INC.**  
140 Duffield Drive  
Markham, Ontario  
Canada, L6G 1B5  
Phone: (905) 513-7100  
Fax: (905) 513-7101



## Warranty Terms and Conditions

### RISK OF LOSS

Delivery of the equipment to a common carrier shall constitute delivery to the Purchaser and the risk of loss shall transfer at that time to Purchaser. Should delivery be delayed due to an act or omission on the part of the Purchaser, risk of loss shall transfer to the Purchaser upon notification by **TURCK Inc.** that the order is complete and ready for shipment.

### WARRANTIES

**TURCK INC.** (hereinafter "**TURCK**") offers five (5) **WARRANTIES** to cover all products sold. They are as follows:

- 1) The **12-MONTH WARRANTY** is available for the products listed - generally those not covered by **LIFETIME, 5-YEAR, 24-MONTH** or **18-MONTH** warranty. No registration required.
- 2) The **18-MONTH WARRANTY** is available for the products listed - generally those not covered by **LIFETIME** or **5-YEAR WARRANTY**. No registration is required.
- 3) The **24-MONTH WARRANTY** is available for the products listed - generally those not covered by **LIFETIME, 5-YEAR** or **18-MONTH**. No registration is required.
- 4) The **5-YEAR WARRANTY** is available generally for the products listed. No registration is required.
- 5) A **LIFETIME WARRANTY** is available for the products listed. It becomes effective when the accompanying **TURCK LIFETIME WARRANTY REGISTRATION** is completed and returned to **TURCK**.

### GENERAL TERMS AND CONDITIONS FOR ALL WARRANTIES

- **12-MONTH STANDARD WARRANTY**
- **18-MONTH STANDARD WARRANTY**
- **24-MONTH STANDARD WARRANTY**
- **5-YEAR WARRANTY**
- **LIFETIME WARRANTY**

**TURCK** warrants the Products covered by the respective **WARRANTY AGREEMENTS** to be free from defects in material and workmanship under normal and proper usage for the respective time periods listed above from the date of shipment from **TURCK**. In addition, certain specific terms apply to the various **WARRANTIES**.

**THESE EXPRESS WARRANTIES ARE IN LIEU OF AND EXCLUDE ALL OTHER REPRESENTATIONS MADE - BOTH EXPRESSED AND IMPLIED. THERE ARE NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE FOR PRODUCTS COVERED BY THESE TERMS AND CONDITIONS.**

**TURCK** warrants that the goods sold are as described, but no promise, description, affirmation of fact, sample model or representation, oral or written shall be part of an order, unless set forth in these terms and conditions, or are in writing and signed by an authorized representative of **TURCK**. These **WARRANTIES** do not apply to any Product which has been subject to misuse, negligence, or accident - or to any Product which has been modified or repaired, improperly installed, altered, or disassembled -except according to **TURCK's** written instructions.

These **WARRANTIES** are subject to the following conditions:

- 1) These **WARRANTIES** are limited to the electronic and mechanical performance only, as expressly detailed in the Product specifications and **NOT** to cosmetic performance.
- 2) These **WARRANTIES** shall not apply to any cables attached to, or integrated with the Product. However, the **18-MONTH WARRANTY** shall apply to cables sold separately by **TURCK**.
- 3) These **WARRANTIES** shall not apply to any Products which are stored, or utilized, in harsh environmental or electrical conditions outside **TURCK's** written specifications.
- 4) The **WARRANTIES** are applicable only to Products shipped from **TURCK** subsequent to January 1, 1988.

### ADDITIONAL SPECIFIC TERMS FOR -

(**12-MONTH STANDARD WARRANTY**) for Linear Displacement Transducers and RFID products.

(**18-MONTH STANDARD WARRANTY**) FOR ULTRASONIC SENSORS, CABLES AND ALL NON-SENSING PRODUCTS SOLD BY **TURCK INC.** INCLUDING MULTI-SAFE, MULTI-MODUL, MULTI-CART AND RELATED AMPLIFIER PRODUCTS, RELAYS AND TIMERS.

(**24-MONTH STANDARD WARRANTY**) FOR ENCODERS.

**5-YEAR WARRANTY FOR INDUCTIVE AND CAPACITIVE PROXIMITY SENSORS:** The periods covered for the above **WARRANTIES** and Products shall be 12 MONTHS, 18-MONTHS, 24-MONTHS and 5-YEARS, respectively, from the date of shipment from **TURCK**.

# TURCK

## Process Automation Products

### Warranty Terms and Conditions

#### ADDITIONAL SPECIFIC TERMS FOR - (continued)

**LIFETIME WARRANTY (OPTIONAL - REGISTRATION REQUIRED) FOR INDUCTIVE, INDUCTIVE MAGNET OPERATED AND CAPACITIVE PROXIMITY SENSORS SOLD TO THE ORIGINAL PURCHASER FOR THE LIFETIME OF THE ORIGINAL APPLICATION.**

#### The following terms apply to the LIFETIME WARRANTY in addition to the General Terms:

- 1) This WARRANTY shall be effective only when the LIFETIME WARRANTY REGISTRATION has been completed, signed by the End User and an authorized **TURCK** Representative or Distributor and has been received by **TURCK** no later than six (6) months after installation in the End User's Plant, or two (2) years from the date product was shipped from **TURCK**, whichever is sooner.
- 2) This warranty is available only to **TURCK's** authorized Representatives, Distributors and to the Original User. (The term "Original User" means that person, firm, or corporation which first uses the Product on a continuous basis in connection with the operation of a production line, piece of machinery, equipment, or similar device.) In the event the ownership of the product is transferred to a person, firm or corporation other than the Original User, this WARRANTY shall terminate.
- 3) This WARRANTY is applicable only to the Original Application. In the event the machinery, equipment, or production line to which the Product is connected, or on which it is installed, is substituted, changed, moved or replaced, the WARRANTY shall terminate.
- 4) This WARRANTY shall be valid only if the Product was purchased by the Original User from **TURCK**, or from an authorized **TURCK** Distributor, or was an integral part of a piece of machinery and equipment obtained by the Original user from an Original Equipment Manufacturer, which itself, was purchased directly from **TURCK** or from an authorized Distributor.

#### PURCHASER'S REMEDIES

This Remedy shall apply to all WARRANTIES. If a **TURCK** Distributor desires to make a WARRANTY Claim, the Distributor shall, if requested by **TURCK**, ship the Product to **TURCK's** factory in Minneapolis, Minnesota, postage or freight prepaid. If the User desires to make a WARRANTY Claim, they shall notify the authorized **TURCK** Distributor from whom it was purchased or, if such Distributor is unknown, shall notify **TURCK**. **TURCK** shall, at its option, take any of the following two courses of action for any products which **TURCK** determines are defective in materials or workmanship.

- 1) Repair or replace the Product and ship the Product to the Original Purchaser or to the authorized **TURCK** Distributor, postage or freight prepaid; or
- 2) Repay to the Original Purchaser that price paid by the Original Purchaser; provided that if the claim is made under the LIFETIME WARRANTY, and such Product is not then being manufactured by **TURCK**, then the amount to be repaid by **TURCK** to the Original Purchaser shall be reduced according to the following schedule:

<u>Number of Years Since Date of Purchase by Original Purchaser</u>	<u>Percent of Original Purchase Price To Be Paid by TURCK</u>
10	50%
15	25%
20	10%
More than 20	5%

**PURCHASER'S REMEDIES SHALL BE LIMITED EXCLUSIVELY TO THE RIGHT OF REPLACEMENT, REPAIR OR REPAYMENT AS PROVIDED AND DOES NOT INCLUDE ANY LABOR COST OR REPLACEMENT AT ORIGINAL PURCHASER'S SITE. TURCK SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF ANY WARRANTY, EXPRESSED OR IMPLIED, APPLICABLE TO THE PRODUCT, INCLUDING WITHOUT LIMITATION, ANY DAMAGES RESULTING FROM PROPERTY DAMAGE, PERSONAL INJURY OR BUSINESS INTERRUPTION.**

#### CONSIDER SAFETY AND PROTECTION PRECAUTIONS

**TURCK** takes great care to design and build reliable and dependable products, however, some products can fail eventually. You must take precautions to design your equipment to prevent property damage and personal injury in the unlikely event of failure. As a matter of policy, **TURCK** does NOT recommend the installation of electronic controls as the sole device FOR THE PROTECTION OF PERSONNEL in connection with power driven presses, brakes, shears and similar equipment and, therefore, the customer should build in redundancy or dual control using approved safety devices for these applications.

#### GOVERNING LAW

The sale and purchase of Products covered hereby and all terms and conditions hereof shall be governed by the law of the State of Minnesota.