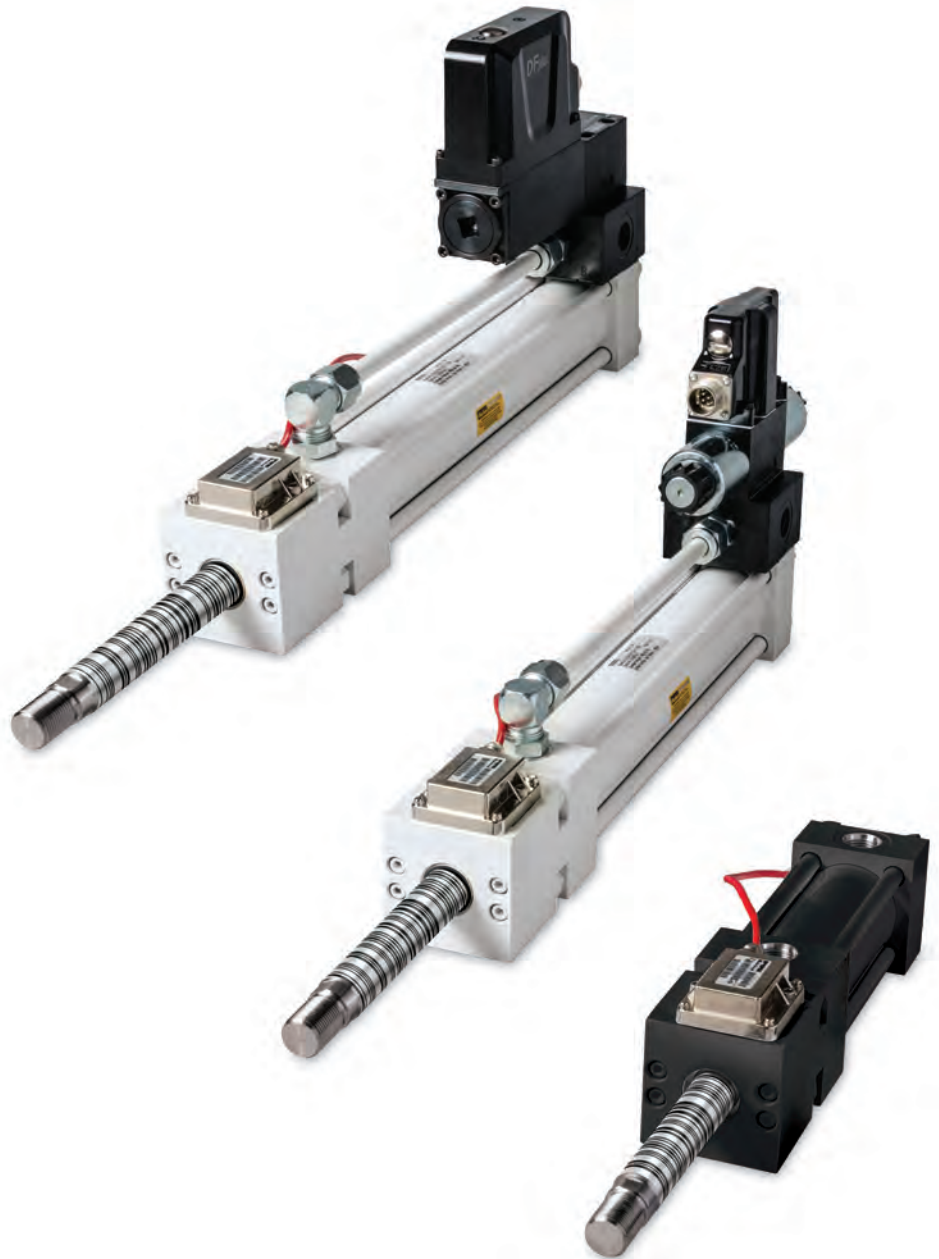




aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Intellinder™ Absolute Position Sensor for Industrial Application

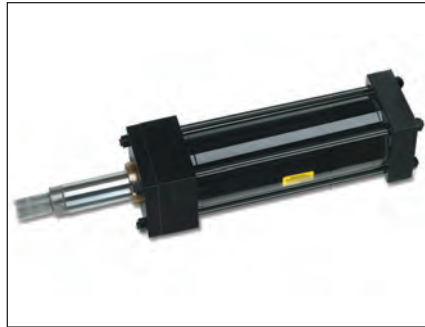


ENGINEERING YOUR SUCCESS.



Series 3L

- Bore Sizes 1.50" through 8.00"
- Removable Rod Gland
- 15 Standard Mounting Styles
- 1,000 psi Nominal Hydraulic Service



Series 2H / 3H

- Nominal pressure 3000 psi
- Standard temperature -10°F to +165°F
- Bore diameters 1.50" to 20.00"
- Piston rod diameter 1.000" - 10.000"



Series RDH

- Operating pressure of 3,000 psi
- Gross stroke lengths available in any practical stroke length
- 9 standard mounting styles
- 5 standard rod end styles (specials available for easy adaptability)
- Approximately 36% lower weight than comparable steel tie rod cylinder construction

In line with our policy of continuing product improvement, specifications and information contained in this catalog are subject to change.

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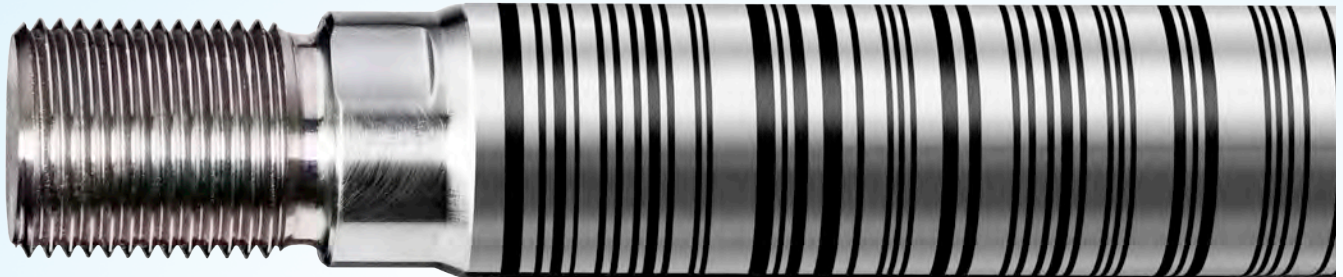
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The Next Step In Position Sensor Technology



The evolution of position sensing technology has taken a smart step forward with the Intellinder Absolute Position Sensor design. By integrating a highly engineered sensor into the hydraulic cylinder, this Parker design eliminates the time and cost associated with gun drilling, as well as unprotected external sensors with complex linkages. Cylinder feedback installation is virtually plug-and-play.

The Intellinder Sensor signals absolute positioning, rather than position relative to the starting location of the rod. Position identifying bar codes are marked right on the rod so its position is communicated continually and directly to the controller. Position report occurs at power-on. Our design allows for full utilization of double-rod cylinder applications requiring position feedback.

This proprietary technology has undergone exhaustive laboratory and field testing to validate its ability to maintain signal fidelity in extremely challenging environments.

The Intellinder Absolute Position Sensor sustains performance in applications exposed to vibration, dust, gravel, corrosives, chemicals, axial load, side load, and immersion. It remains impervious to electronic noise and has been tested to ensure signal strength in the most rigorous applications.

The Intellinder Absolute Position Sensor performs across a wide range of temperatures and provides long stroke capabilities of 20 feet (6,096 mm). It features highly sensitive health monitoring to detect and diagnose potential cylinder malfunctions before they can disrupt operations.



Product is shown with optional white epoxy paint, black paint is standard.

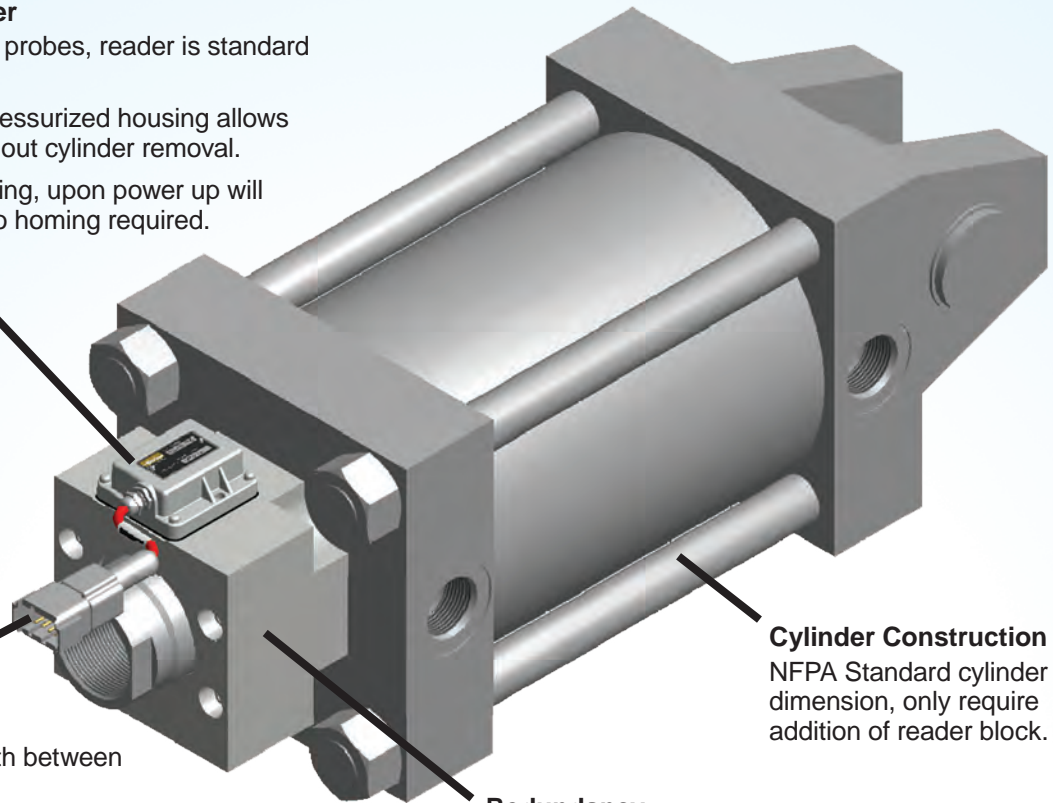
Features

Universal Optical Reader

No need to stock multiple probes, reader is standard across all stroke lengths.

Quick change out, non-pressurized housing allows for easy replacement without cylinder removal.

Absolute position monitoring, upon power up will provide actual position, no homing required.



Connectivity

Up to 300 feet cable length between Cylinder and Electronics.

Deutsch Style Connector with M12 circular adapter cable for cylinder ID tag and Bus termination.

Cylinder Construction

NFPA Standard cylinder dimension, only require addition of reader block.

Redundancy

Multiple Readers can be installed for redundant position measurement requirements.

Intellinder Absolute Position Sensor is ideal for applications such as:

- HydroPower Electric Generation Dams
- Civil Lock and Flood Control Dams
- Metal Fabrication
- Conveyor/Table Lifts for Material Handling
- Oil and Gas*
- Electric Power Generation*

*ATEX Pending



Intellinder™ Absolute Position Sensor for Industrial Application

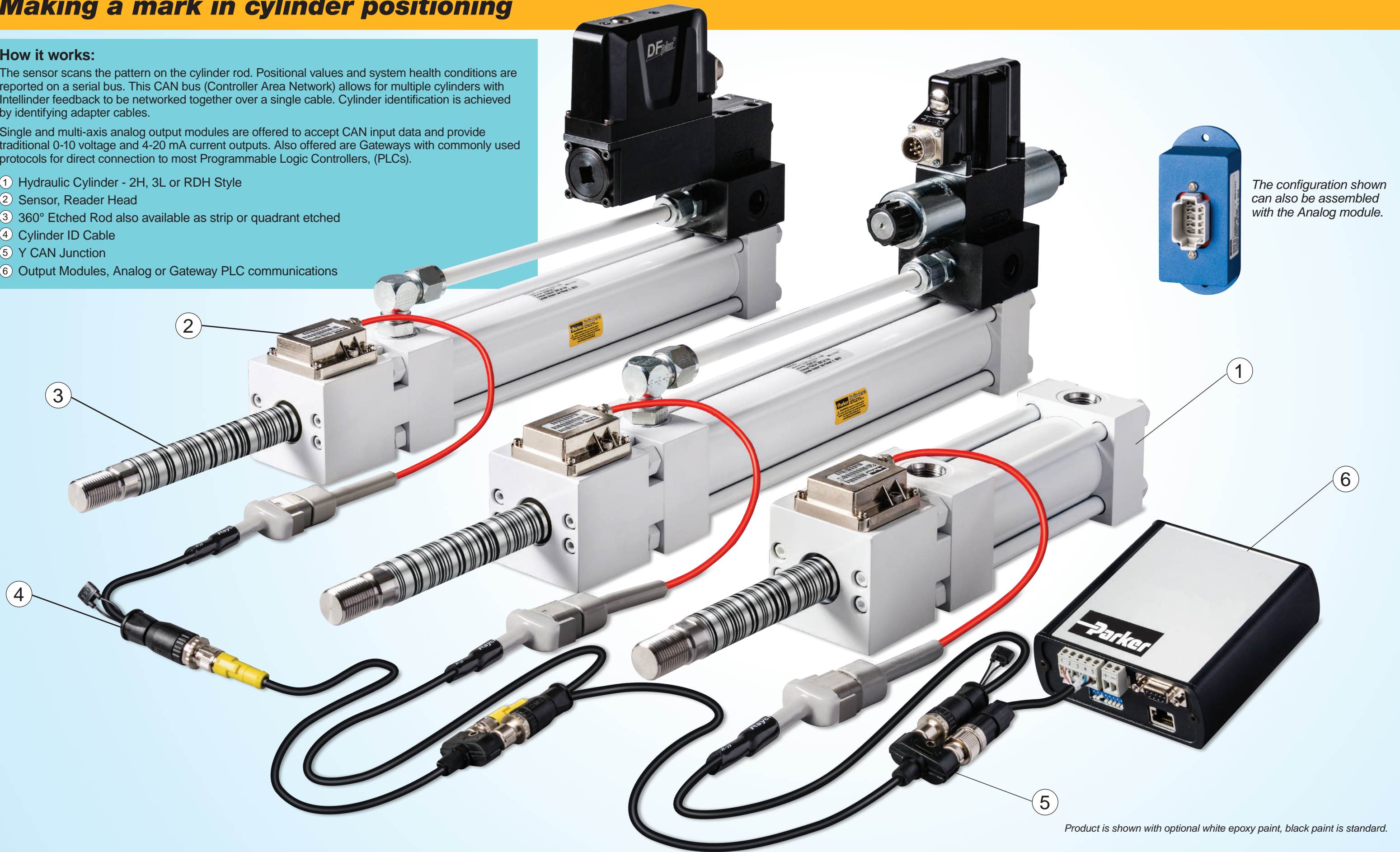
Making a mark in cylinder positioning

How it works:

The sensor scans the pattern on the cylinder rod. Positional values and system health conditions are reported on a serial bus. This CAN bus (Controller Area Network) allows for multiple cylinders with Intellinder feedback to be networked together over a single cable. Cylinder identification is achieved by identifying adapter cables.

Single and multi-axis analog output modules are offered to accept CAN input data and provide traditional 0-10 voltage and 4-20 mA current outputs. Also offered are Gateways with commonly used protocols for direct connection to most Programmable Logic Controllers, (PLCs).

- ① Hydraulic Cylinder - 2H, 3L or RDH Style
- ② Sensor, Reader Head
- ③ 360° Etched Rod also available as strip or quadrant etched
- ④ Cylinder ID Cable
- ⑤ Y CAN Junction
- ⑥ Output Modules, Analog or Gateway PLC communications



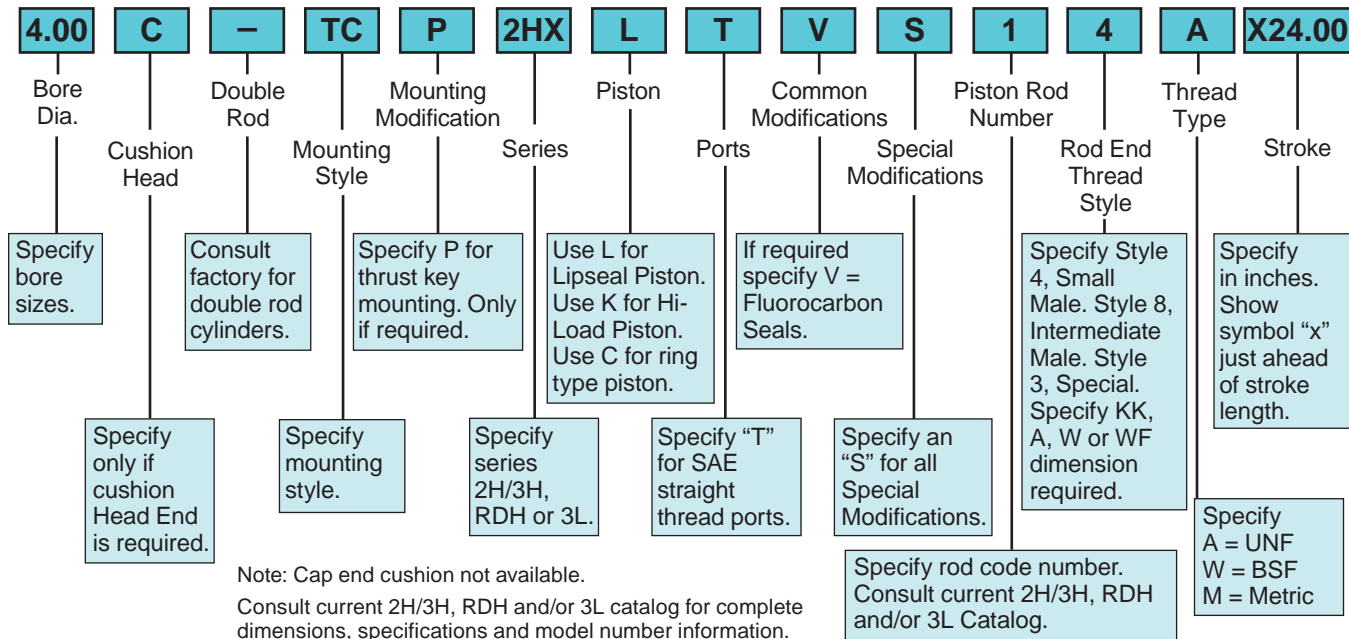
The configuration shown can also be assembled with the Analog module.

Product is shown with optional white epoxy paint, black paint is standard.

How to Order Basic Model with Valve and Feedback Code:

1. Specify the complete Parker Cylinder Model Number.
2. Specify the 6 digit Valve and Feedback Code.

Basic Model Numbers



Valve and Feedback Codes (Required for ordering)

| Valve Manifold | | Valve Pattern Group | | Valve Location | | Feedback Option | | Feedback Furnished | | Feedback Enclosure | |
|----------------|--------------|---------------------|---------------------------|----------------|--------------------|-----------------|---|--------------------|---|--------------------|----------------------------------|
| Code | Description | Code | Description | Code | Description | Code | Description | Code | Description | Code | Description |
| N | N - None | N | N - Not Applicable | N | N - Not Applicable | N | N - None | NF | NF - No Feedback | N | N - Not Applicable |
| B | B - Bolt-On | A | A - Servo Group A | H | H - Head | C | C - MTS LDT | 1P | 1P - Prepare to Accept - Piston rod will be drilled to accept a probe with an electrical stroke equal to the cylinder net stroke. | A | A - False Stage |
| I | I - Integral | D | D - Servo Group D | C | C - Cap | F | F - LRT | | FR | FR - LRT Installed | D |
| | | G | G - D03 (Group G) | | | B | B - Balluff LDT | V0 | V0 - 0 Vdc to +10 Vdc | F | F - Medium Duty |
| | | H | H - D05 (Group H) | | | W | W - WaveScale | V1 | V1 - +10 Vdc to 0 Vdc | | |
| | | J | J - D06 (Group J) | | | I | I - Intellinder - Specify reader mounting position. | A0 | A0 - 4 mA to 20 mA | | |
| | | K | K - D07 (Group K) | | | | | A1 | A1 - 20 mA to 4 mA | A2 | A2 - 0 mA to 20 mA |
| | | M | M - D08 (Group M) | | | X | X - Other, Please Specify | A3 | A3 - 20 mA to 0 mA | | |
| | | X | X - Other, Please Specify | | | | | A4 | A4 - Other Analog - Specify required output. | DE | DE - PWM, External Interrogation |
| | | | | | | | | DI | DI - PWM, Internal Interrogation | | |
| | | | | | | | | SS | SS - SSI Output | | |
| | | | | | | | | R0 | R0 - Start/Stop | | |
| | | | | | | | | D4 | D4 - Other Digital - Specify required output. | | |
| | | | | | | | | J0 | J0 - J1939 | | |
| | | | | | | | | J4 | J4 - Other Intellinder - Specify required output. | | |

When ordering please specify Strip, Quadrant, Multi-strip or 360° etching.

When ordering PLC Gateways or (4) axis Analog modules, order "JO" Feedback Furnished codes

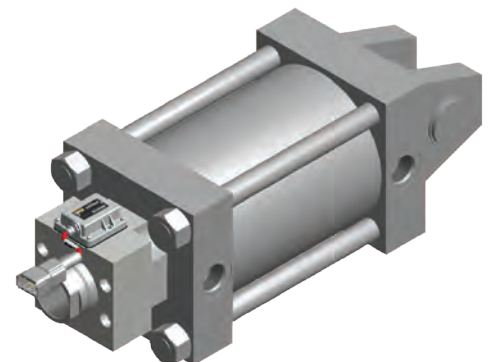
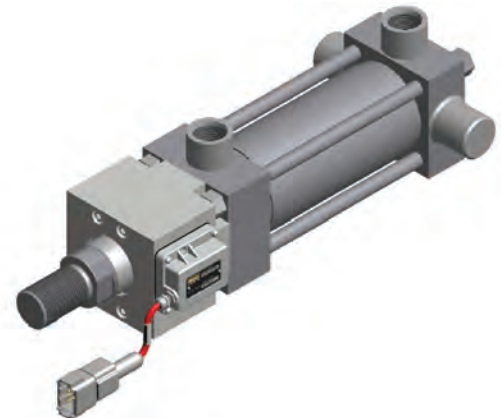
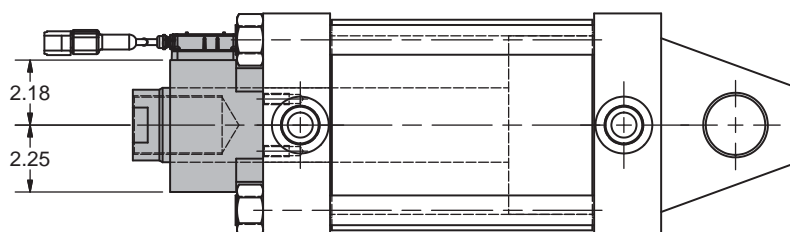
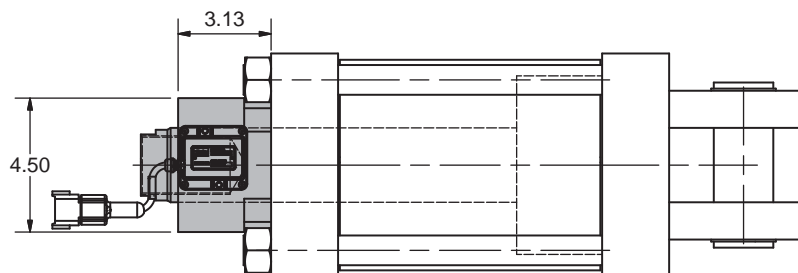


Specifications**Intellinder™****Absolute Position Sensor for Industrial Application**

| General Specifications (Sensor) | | Electrical Specifications (Sensor) | |
|---------------------------------|--|------------------------------------|---|
| Resolution | 0.0013 in (0.03 mm)* | Input Power | 8-32VDC, <2W |
| Hysteresis | 0.0038 in (0.10 mm) | Data I/O | Generic CAN, 250 Kbaud, 29-bit ID |
| Repeatability | 0.0014 in (0.036 mm) | Networking | Up to 8 sensors per CAN network (Separate PGNs) |
| Linearity | 0.0026 in (0.0027% FS) | Connector | Deutsch 8-Pin (DTM06-8S), M12 5 Pin male (adapter cable assembly) |
| Maximum velocity | 40 in/s (1 m/sec) | Update Rate | 1-100 Hz (10-1,000 ms) |
| Bore Diameter | No Limit | Temperature | Operating: -40° F to 221° F (SAE J1455) |
| Rod Diameter | 1" to 10" | Ingression | Immersion: IP 68 (10m, 30 min) Pressure wash: IP65 |
| Stroke Length | up to 240 in (6100 mm) | Electrical | EMI EN61000-6-2 (Radiated susceptibility) |
| Rod Material | Chrome plated 1045 Chrome plated 17-4 PH Stainless | | EN 61000-6-4 (Radiated Emission) |
| Mechanical | Vibration: 12g, 25Hz-2KHz Shock: 100g | | Overtolerance to +36 VDC |
| Null Zone | None | | Reverse Polarity to -36VDC |
| Dead Zone | None | | Short to GND, Short to 32VDC |
| Cable Length | 300 feet between Cyl and module ** 1 foot between reader and Y junction | | ESD: ±8kV |

* On cylinder stroke lengths greater than 65", (1651 mm) analog resolution is 0.004" (0.1 mm)

** Above 130 feet terminating resistor values need to be evaluated, consult factory for values.

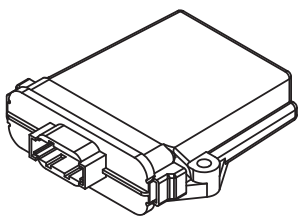
Basic Intellinder Dimensions

Analog Output Modules

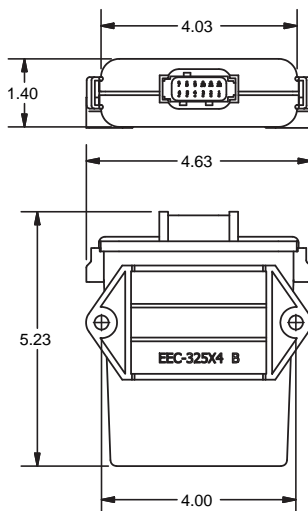
| Analog Output Modules (single and 4 axis units) | |
|---|--|
| Input Power | 9-60 VDC |
| Current Draw | Single Axis: 29 mA at 24 VDC, 4 axis: 160 mA at 24 VDC |
| Outputs | 0-10V, ±10 V, 4-20 mA |
| Connector | Deutsch 8-Pin (DT06-8S), M12 5 Pin female (adapter cable assembly) |
| Update Rate | 100 Hz (10 ms) |
| Output Resolution | .015% |
| Output Accuracy | .5% |
| Temperature | Operating: -40° F to 185° F Storage: -67° F to 257° F |
| Protection | IP67 |
| Scale & Offset | Factory set, adjustable with Intellinder MD3 accessory. |



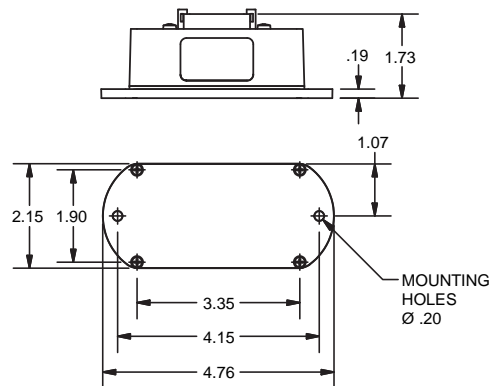
Dimensional Data



4 Axis Analog Output Module



Single Axis Analog Output



Wiring Information

Cylinder ID Cable



Power Cable Connection

CAN Cable Connection

Single Axis Module

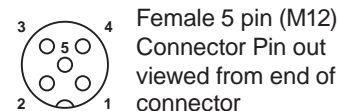
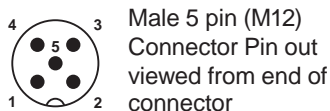
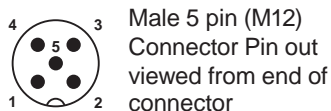
| Power Cable (male) | | |
|--------------------|------------|---------------|
| Pin | Wire Color | Description |
| 1 | Brown | Power (+) |
| 2 | White | Analog Common |
| 3 | Blue | Power Common |
| 4 | Black | Analog Out |
| 5 | Gray | N/C |

4 Axis Module Power Cable (Male Connector)

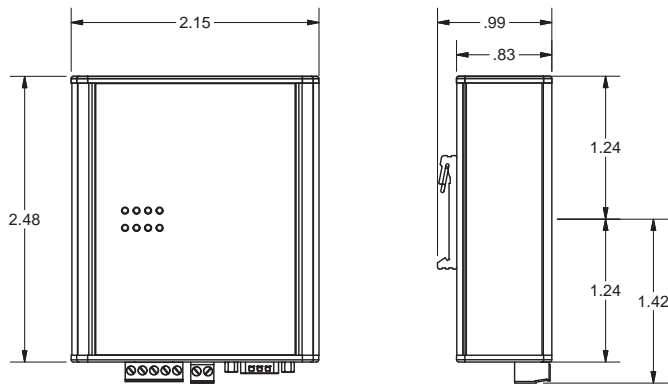
| Power Cable (male) 4 axis | | |
|---------------------------|------------|-----------------------|
| Pin | Wire Color | Description |
| 1 | White | Analog Common |
| 2 | Brown | Power (+) |
| 3 | Green | Analog Common |
| 4 | Yellow | Analog Out, Axis: 3/7 |
| 5 | Gray | Analog Out, Axis: 2/6 |
| 6 | Pink | Analog Out, Axis: 1/5 |
| 7 | Blue | Power Common |
| 8 | Red | Analog Out, Axis: 0/4 |

CAN Cable Female Connector

| CAN Cable (female, programming) | | |
|---------------------------------|------------|----------------|
| Pin | Wire Color | Description |
| 1 | — | Drain (shield) |
| 2 | Red | Power (+) |
| 3 | Black | Power Common |
| 4 | White | CAN H |
| 5 | Green | CAN L |



| PLC Gateways | |
|----------------|---|
| Input Power | 11-32 VDC |
| Current Draw | 140 mA at 24 VDC |
| Communications | Ethernet TCP, Ethernet IP, Profibus, Modbus RTU |
| Temperature | Operating: 32° F to 158° F |
| Protection | IP20 |



Calibration Module



Cylinder ID Cable



Programming Cable



M12 Cables



CAN Y Junction



| Accessories Part Numbers | |
|--------------------------|--|
| Part No. | Description |
| 0975530000 | Single Axis Analog Output Module |
| 0975540000 | 4 Axis Analog Output Module |
| 0975550000 | 4-axis Cable, ID 0 |
| 0975560000 | 4-axis Cable, ID 1 |
| 0975570000 | 4-axis Cable, ID 2 |
| 0975580000 | 4-axis Cable, ID 3 |
| 0975590000 | 4-axis Cable, ID 4 |
| 0975600000 | 4-axis Cable, ID 5 |
| 0975610000 | 4-axis Cable, ID 6 |
| 0975620000 | 4-axis Cable, ID 7 |
| 0975630000 | M12, 5 pin cable, 5 meters, male/female straight |
| 0975640000 | M12 5 pin cable, 10 meters, male/female straight |
| 0975650000 | M12, 5 pin cable, 5 meters, female/flying lead |
| 0975670000 | M12, 8 pin cable, 5 meters, female/flying lead |
| 0975680000 | CAN Y Junction Cable |
| 0975730000 | 1- Axis Analog Output Module Cable assembly |
| 0975660000 | 4-Axis Analog Output Module Cable assembly |

| PLC Gateway Module Part Numbers | |
|---------------------------------|-----------------|
| Part No. | Description |
| 0975690000 | Ethernet IP/TCP |
| 0975700000 | Profibus |
| 0975710000 | Modbus RTU |

| Calibration & Diagnostics | |
|---------------------------|--------------------------|
| Part No. | Description |
| 0975510000 | Calibration Module (MD3) |
| 0975520000 | Programming Cable |

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3. Delivery Dates; Title and Risk; Shipment. All delivery dates are approximate and Seller shall not be responsible for any damages resulting from any delay. Regardless of the manner of shipment, title to any products and risk of loss or damage shall pass to Buyer upon placement of the products with the shipment carrier at Seller's facility. Unless otherwise stated, Seller may exercise its judgment in choosing the carrier and means of delivery. No deferment of shipment at Buyers' request beyond the respective dates indicated will be made except on terms that will indemnify, defend and hold Seller harmless against all loss and additional expense. Buyer shall be responsible for any additional shipping charges incurred by Seller due to Buyer's acts or omissions.

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8. Loss to Buyer's Property. Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer's property, will be considered obsolete and may be destroyed by Seller after two consecutive years have elapsed without Buyer ordering the items manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.

9. Special Tooling. A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture Products. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the Products, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

10. Buyer's Obligation; Rights of Seller. To secure payment of all sums due or otherwise, Seller shall retain a security interest in the goods delivered and this agreement shall be deemed a Security Agreement under the Uniform Commercial Code. Buyer authorizes Seller as its attorney to execute and file on Buyer's behalf all documents Seller deems necessary to perfect its security interest.

11. Improper use and Indemnity. Buyer shall indemnify, defend, and hold Seller harmless from any claim, liability, damages, lawsuits, and costs (including attorney fees), whether for personal injury, property damage, patent, trademark or copyright

infringement or any other claim, brought by or incurred by Buyer, Buyer's employees, or any other person, arising out of: (a) improper selection, improper application or other misuse of Products purchased by Buyer from Seller; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of patterns, plans, drawings, or specifications furnished by Buyer to manufacture Product; or (d) Buyer's failure to comply with these terms and conditions. Seller shall not indemnify Buyer under any circumstance except as otherwise provided.

12. Cancellations and Changes. Orders shall not be subject to cancellation or change by Buyer for any reason, except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage. Seller may change product features, specifications, designs and availability with notice to Buyer.

13. Limitation on Assignment. Buyer may not assign its rights or obligations under this agreement without the prior written consent of Seller.

14. Force Majeure. Seller does not assume the risk and shall not be liable for delay or failure to perform any of Seller's obligations by reason of circumstances beyond the reasonable control of Seller (hereinafter "Events of Force Majeure"). Events of Force Majeure shall include without limitation: accidents, strikes or labor disputes, acts of any government or government agency, acts of nature, delays or failures in delivery from carriers or suppliers, shortages of materials, or any other cause beyond Seller's reasonable control.

15. Waiver and Severability. Failure to enforce any provision of this agreement will not waive that provision nor will any such failure prejudice Seller's right to enforce that provision in the future. Invalidation of any provision of this agreement by legislation or other rule of law shall not invalidate any other provision herein. The remaining provisions of this agreement will remain in full force and effect.

16. Termination. Seller may terminate this agreement for any reason and at any time by giving Buyer thirty (30) days written notice of termination. Seller may immediately terminate this agreement, in writing, if Buyer: (a) commits a breach of any provision of this agreement (b) appoints a trustee, receiver or custodian for all or any part of Buyer's property (c) files a petition for relief in bankruptcy on its own behalf, or by a third party (d) makes an assignment for the benefit of creditors, or (e) dissolves or liquidates all or a majority of its assets.

17. Governing Law. This agreement and the sale and delivery of all Products hereunder shall be deemed to have taken place in and shall be governed and construed in accordance with the laws of the State of Ohio, as applicable to contracts executed and wholly performed therein and without regard to conflicts of laws principles. Buyer irrevocably agrees and consents to the exclusive jurisdiction and venue of the courts of Cuyahoga County, Ohio with respect to any dispute, controversy or claim arising out of or relating to this agreement.

18. Indemnity for Infringement of Intellectual Property Rights. Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Section. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets ("Intellectual Property Rights"). Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on an allegation that a Product sold pursuant to this Agreement infringes the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If a Product is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Product, replace or modify the Product so as to make it noninfringing, or offer to accept return of the Product and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to Products delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any Product sold hereunder. The foregoing provisions of this Section shall constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.

19. Entire Agreement. This agreement contains the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter are herein merged.

20. Compliance with Law, U. K. Bribery Act and U.S. Foreign Corrupt Practices Act. Buyer agrees to comply with all applicable laws and regulations, including both those of the United Kingdom and the United States of America, and of the country or countries of the Territory in which Buyer may operate, including without limitation the U. K. Bribery Act, the U.S. Foreign Corrupt Practices Act ("FCPA") and the U.S. Anti-Kickback Act (the "Anti-Kickback Act"), and agrees to indemnify and hold harmless Seller from the consequences of any violation of such provisions by Buyer, its employees or agents. Buyer acknowledges that they are familiar with the provisions of the U. K. Bribery Act, the FCPA and the Anti-Kickback Act, and certifies that Buyer will adhere to the requirements thereof. In particular, Buyer represents and agrees that Buyer shall not make any payment or give anything of value, directly or indirectly to any governmental official, any foreign political party or official thereof, any candidate for foreign political office, or any commercial entity or person, for the purpose of influencing such person to purchase products or otherwise benefit the business of Seller.





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