Cat.No. C02-17-D

Semiconductor Industry *EJ95*

Intrinsically Safe Pressure Sensor

Outline

Acquired international explosion-proof standards [IECEx], also acquired Japanese standards and European standards [ATEX]. Moreover, enable global response considering acquisition of overseas standards.

Features

- Acquired IECEx, ATEX, Japanese explosion-proof standards, TS, NEPSI and KCs
- · Incorporated external zero adjustment function
- Accuracy (±0.25% F.S.), Improvement of temperature characteristics
- Environmental resistance: IP65 equivalent
- Exterior is all stainless steel

List of grade

Cleanliness These pressure transmitters have been assembled, calibrated, inspected and packaged in a clean room, paying special attention for maintaining cleanliness.

| Grade | | UC (Ultra Clean) | EP (Electro Polishing) | |
|------------------------|--------------------|---|---|--|
| Model number | | EJ95-□□6 | EJ95-□□E | |
| Surface ro of gas o | | 0.18μm Ra Avg. 0.7μm Rz Max. | 0.18µm Ra Avg. | |
| Wetted | Pressure sensor | Co-Ni alloy | SUS316L | |
| parts | Fitting *1 SUS316L | | SUS316L | |
| Maxir allowable p | | 200% of rated pressure | 150% of rated pressure | |
| Leak (Helium le | | 5 x 10 ⁻¹² Pa·m ³ /s and under | 5 x 10 ⁻¹² Pa•m ³ /s and under | |
| Parti | icle | Zero count for size 0.1 μ m or greater (In our inspection standard) | Zero count for size 0.1 µm or greater (In our inspection standard) | |
| Cleaning | | Ultra clearance (Cleaning) | Ultra clearance (Cleaning) | |
| Operating (Recomn | | High-purity gas, semiconductor material gas, etc. | High-purity gas, semiconductor material gas, etc. | |

*1 For UC Grade, the pressure transmitter can be manufactured in DOUBLE MELT material by request. Please contact us.
*2 Allowable maximum pressure is the upper limit of pressure value which may safely be applied to the product and remain in specification once pressure is returned to the rated pressure range with a couple of times overpressurization for about 10 minutes.

Effects of continuous overpressure are not guaranteed.

*3 Ensure that pressure media is compatible with wetted parts.

NAGANO KEIKI





General specification

| Item | Description |
|--|---|
| Fluid | Process gasses for semiconductor industry |
| Pressure range | 0 to 0.3, 0.5, 1, 2, 3.5, 5, 10, 20 MPa -0.1 to 0.3, 0.5, 1, 2 MPa ※Other compound ranges are also available. Please contact us. |
| Accuracy *1 | ±0.25% F.S. (at 23°C) |
| Internal volume | Approx. 0.9 cm ³ (In case of type S, 1/4UJR, it depends on shape of fitting.) |
| Fitting type | Туре Т, Туре S |
| Connection | Connection fitting for semiconductor (1/4 · 3/8 UJR, VCR, CVC, etc.) |
| Pressure sensor seal method | Welding type |
| Power supply voltage | 11 to 28V DC |
| Load resistance | R max. (Ω)=50E-500 (E: Power supply voltage) *2 |
| Output | 4 to 20mA DC |
| Transmission | 2-wire system |
| Temperature characteristics (ZERO, SPAN) | ±0.25% F.S. / 10°C |
| Operating temperature range | -20 to 60°C (No icing or condensation) |
| Storage temperature range | -30 to 80°C (No icing or condensation) |
| Insulation resistance | 100M Ω or Higher (Form fittings to input/output terminal collectively 50V DC) |
| Electric connection | M12 Connector (4-Pin) |
| Zero-point adjuster | External Zero. ADJ. (Side) ※Push-turn Type |
| Case material | SUS304, SUS305, chloroprene rubber/POM (for zero-point adjuster portion) |
| Container protection class | Equivalent to IP65 (under JIS C 0920) |
| Weight | Approx. 160 g (For S Type, the cable is excluded. It depends on the fitting type.) |

*1 Accuracy includes the effects of Linearity, Hysteresis and Repeatability.
*2 Relational Expression of load Resistance is specification of EJ95 single unit. In fact, It depends on Combination with Safety Cage.

Intrinsically safe specification

| Intrinsically safe standard | IECEx (International) | ATEX*1 (Europe) | JAPAN | TS (Taiwan) | NEPSI (China) | KCs (Korea) |
|---|---|--|---------------|----------------------------------|------------------|----------------|
| Certificate number | IECEx CML 19.0013 | CML 19ATEX2063 | CML 19JPN2184 | TD10003L (Identification No.) | GYJ19.1315 | 19-AV4B0-0654 |
| Hazardous area classifications | Zone0 | Category 1G | | Zone |) | |
| Intrinsically safe construction type | | Exia IIC T4 Ga Equipment protection level Gas group Intrinsically safe construction | | | | |
| Safety maintenance rating | Max. allowable cui Max. allowable por Internal inductance Internal capacitance | Max. allowable voltage of intrinsically safe circuit (Ui): 28V Max. allowable current of intrinsically safe circuit (Ii): 93mA Max. allowable power of intrinsically safe circuit (Pi): 651mW Internal inductance of intrinsically safe circuit (Li): 0mH Internal capacitance of intrinsically safe circuit (Ci): 0.052μ F Ambient temperature: -20°C to 60°C | | | | |
| External transmission cable | $ \begin{array}{llllllllllllllllllllllllllllllllllll$ | | | | | |
| Withstand voltage | 500 V AC, 1 min. | | | | | |

*1 Comfornity directive: 2014/34/EU (ATEX Directive)

*The intrinsically safe construction is achieved only when this pressure sensor is used in combination with a safety barrier.

Combined conditions related to safety barrier rating

| Safety maintenance rating of intrinsic safety device | Combination conditions | Safety maintenance rating of the safety barrier |
|--|------------------------|---|
| Maximum input voltage (Ui) | 2 | Maximum output voltage (Uo) |
| Maximum input current (li) | ≧ | Maximum output current (Io) |
| Maximum input power (Pi) | ≧ | Maximum output power (Po) |

Combined conditions related to parameter

| Parameter of intrinsic safety device and wiring | Combined conditions | Parameter of safety barrier |
|---|---------------------|-----------------------------------|
| Input inductance of EJ95 (Li) + Inductance of wiring (Lc) | ≦ | Maximum external inductance (Lo) |
| Input capacitance of EJ95 (Ci) + Capacitance of wiring (Cc) | ≦ | Maximum external capacitance (Co) |

Recommended safety barrier

 $\ast \mbox{The safety barrier can be selected by the customer.}$

Insulation type

| Item | Description | | | | | |
|--------------------------------------|---|------------------------------|--|--|--|--|
| Manufacturer | • P & F Co., Ltd. | Cooper industries Japan K.K. | IDEC | | | |
| Туре | KFD2-STC4-Ex1* | MTL5541 | D5014S (Input 1ch) D5014D (Input 2ch) | | | |
| Type approval number (JP) | No. TC16232 | No. TC19435 | No. TC21005 | | | |
| Intrinsically safe construction type | Exia IIC | Exia IIC | Exia IIC | | | |
| | *No test report can be issued for this product. | 1 1 | | | | |

% Ground of intrinsic safety regulation is unnecessary because an insulated barrier is isolated from intrinsically safe circuit.

Zener Type

| Item | Description |
|--------------------------------------|-------------------------------|
| Manufacturer | • Cooper Industries Japan K.K |
| Type | MTL7787+ |
| Type approval number (JP) | No. TC16447 |
| Intrinsically safe construction type | Exia IIC |

 $\ensuremath{\mathbbmsc{WUse}}$ of Zener safety barrier requires Type A intrinsic safety groundwork.

Group classification

The types of Intrinsically safe construction electrical equipment are classified into Group ${\rm I}$ and Group ${\rm I}$ according to the place where they are used.

This equipment belongs to Group $\, \mathrm{I\!I} \,$ and is used in hazardous locations in factories or offices, except for hazardous locations in the mine.

· Applicable group of gas or steam

| Gas or steam | Applicable group | | | | |
|--------------|------------------|----|----|--|--|
| A | ΠA | ΠB | ШС | | |
| В | _ | ΠB | ШС | | |
| С | - | - | ШС | | |

· Ignition point of gas or steam which T4 can apply (Within bold-line rectangle)

| Ignition point of gas or steam | Applicable temperature class | | | | | | |
|--------------------------------|------------------------------|----|----|----|----|----|--|
| Higher than 450°C | T1 | T2 | Т3 | Τ4 | Т5 | Т6 | |
| Higher than 300°C | — | T2 | Т3 | Τ4 | Т5 | Т6 | |
| Higher than 200°C | _ | _ | Т3 | T4 | Т5 | T6 | |
| Higher than 135°C | — | — | — | Τ4 | T5 | T6 | |
| Higher than 100°C | _ | _ | _ | _ | T5 | T6 | |
| Higher than 85°C | — | — | — | — | _ | T6 | |

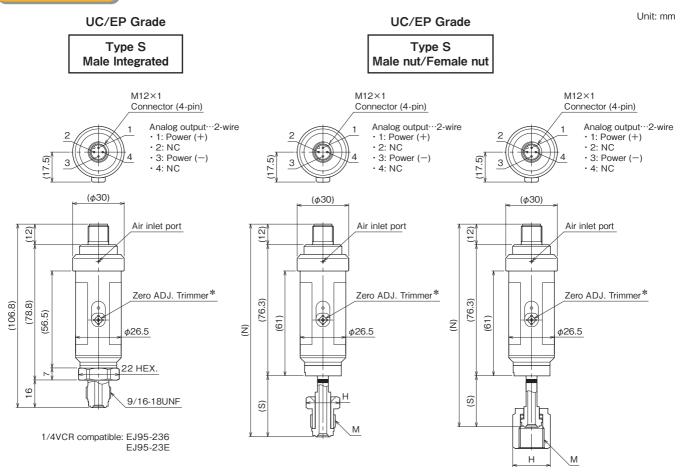
Examples of applicable gas and steam

| Group Temperature | | T2 | ТЗ | T4 | Т5 | T6 |
|-------------------|---|--|--------|-----------------------|----|------------------|
| ΠA | Acetone Ammonia Ethane Acetic acid Ethyl acetate Toluene Benzene Methane | 1-Butanol Butane Propane Methanol | Hexane | Acetaldehyde | | Ethyl nitrite |
| ΠВ | Carbon monoxide | Ethylene Ethylene oxide Ethanol | | Ethyl methyl Ether | | |
| ШС | Hydrogen | Acetylene | | | | Carbon disulfide |

Equipment protection level (EPL) classification symbol

- Ga: Equipment for explosive gas atmospheres, having a "very high" Level of Protection, which is not a source ofignition in normal operation, during expected malfunctions or during rare malfunctions.
- Gb: Equipment for explosive gas atmospheres, having a "high" Level of Protection, which is not a source of ignitionin normal operation or during expected malfunctions.
- Gc: Equipment for explosive gas atmospheres, having an "enhanced" Level of Protection, which is not a source ofignition in normal operation and which may have some additional protection to ensure that it remains inactive as an ignition source in the case of regular expected occurrences (for example failure of a lamp).

Dimensions 1



J95

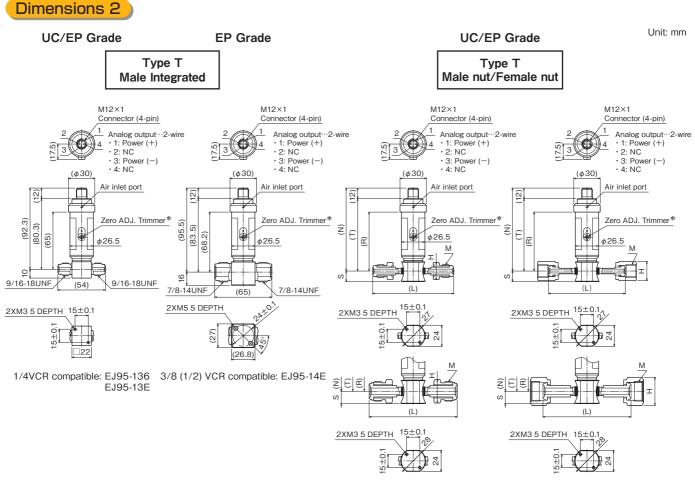
Intrinsically Safe Pressure Sensor

*: Not to be removed

| Overla | Connection | Piping | Screw size M | | Dimension | S | Model |
|--------|---|--------|----------------|-------|-----------|------------------|----------|
| Grade | Connection | DIA. | SCIEW SIZE IVI | N | S | Н | number |
| | VCR Male nut | | | 121.8 | 33.5 | 16 × 18.5 Hex. | EJ95-2J6 |
| | VCR Female nut (Bearings are not included) | | | 119.2 | 30.9 | 19 × 21.9 Hex. | EJ95-2L6 |
| UC | UJR Male nut | • 1/4 | 9/16-18UNF | 124.8 | 36.5 | 17 × 19.6 Hex. | EJ95-2N6 |
| 00 | UJR Female nut (With pure ring) | | | 122.3 | 34 | 19 × 21.9 Hex. | EJ95-2Q6 |
| | CVC Male nut | | | 123.8 | 35.5 | 15.8 × 18.2 Hex. | EJ95-2W6 |
| | CVC Female nut (Bearings are not included) | | | 119.2 | 30.9 | 19 × 21.9 Hex. | EJ95-2Y6 |

| | Grade Connection | | Screw size M | Dimensions | | | Model |
|-------|------------------------------------|------|-----------------|------------|----|----------------|----------|
| Grade | Connection | DIA. | Screw Size IVI | N | S | Н | number |
| EP | UJR Male nut | 1/4 | /4 9/16-18UNF - | 122.3 | 34 | 17 × 19.6 Hex. | EJ95-2NE |
| EP | UJR Female nut (With pure ring) | 1/4 | | 119.3 | 31 | 19 × 21.9 Hex. | EJ95-2QE |

5



*: Not to be removed

| Oracla | Connection | Piping | Screw size M | | | Model | | | | |
|--------|-----------------------------|--------|----------------|------|------|-------|----|------------------|------|----------|
| Grade | Connection | DIA. | SCIEW SIZE IVI | N | Т | R | S | Н | L | number |
| | VCR Male nut | 1/4 | 9/16-18UNF | 94.3 | 82.3 | 67 | 12 | 16 × 18.5 Hex. | 86 | EJ95-1J6 |
| | | 3/8 | 7/8-14UNF | 96.3 | 84.3 | 69 | 14 | 24 × 27.7 Hex. | 90.5 | EJ95-1K6 |
| | VCR Female nut | 1/4 | 9/16-18UNF | 94.3 | 82.3 | 67 | 12 | 19 × 21.9 Hex. | 80.8 | EJ95-1L6 |
| | (Bearings are not included) | 3/8 | 7/8-14UNF | 96.3 | 84.3 | 69 | 14 | 27 × 31.2 Hex. | 81.8 | EJ95-1M6 |
| | UJR Male nut | 1/4 | 9/16-18UNF | 94.3 | 82.3 | 67 | 12 | 17 × 19.6 Hex. | 87 | EJ95-1N6 |
| UC | UJH Male Hut | 3/8 | 7/8-14UNF | 96.3 | 84.3 | 69 | 14 | 23 × 26.6 Hex. | 100 | EJ95-1P6 |
| 00 | UJR Female nut | 1/4 | 9/16-18UNF | 94.3 | 82.3 | 67 | 12 | 19 × 21.9 Hex. | 87 | EJ95-1Q6 |
| | (With pure ring) | 3/8 | 7/8-14UNF | 96.3 | 84.3 | 69 | 14 | 26 × 30 Hex. | 100 | EJ95-1R6 |
| | CVC Male nut | 1/4 | 9/16-18UNF | 94.3 | 82.3 | 67 | 12 | 15.8 × 18.2 Hex. | 86 | EJ95-1W6 |
| | | 3/8 | 7/8-14UNF | 96.3 | 84.3 | 69 | 14 | 23.8 × 27.5 Hex. | 90.6 | EJ95-1X6 |
| | CVC Female nut | 1/4 | 9/16-18UNF | 94.3 | 82.3 | 67 | 12 | 19 × 21.9 Hex. | 80.8 | EJ95-1Y6 |
| | (Bearings are not included) | 3/8 | 7/8-14UNF | 96.3 | 84.3 | 69 | 14 | 27 × 31.2 Hex. | 82 | EJ95-1Z6 |

| 0.1 | Grade Connection | Piping | Piping Screw size M Dimensions | | | | | | Model | |
|-------|--------------------|--------|--------------------------------|------|------|----|----|----------------|-------|----------|
| Grade | Connection | DIA. | Sciew Size IVI | N | Т | R | S | Н | L | number |
| | UJR Male nut | 1/4 | 9/16-18UNF | 94.3 | 82.3 | 67 | 12 | 17 × 19.6 Hex. | 87 | EJ95-1NE |
| EP | UJH Male Hul | 3/8 | 7/8-14UNF | 96.3 | 84.3 | 69 | 14 | 23 × 26.6 Hex. | 100 | EJ95-1PE |
| | UJR Female nut | 1/4 | 9/16-18UNF | 94.3 | 82.3 | 67 | 12 | 19 × 21.9 Hex. | 81 | EJ95-1QE |
| | (without bearings) | 3/8 | 7/8-14UNF | 96.3 | 84.3 | 69 | 14 | 26 × 30 Hex. | 100 | EJ95-1RE |

UC Grade

| | 95 - | - | | 6 | — | | 4 | Y | 1 | 0 | X | × | \times | \times | \times | $ \times $ | |
|--|--|--------------|-----------|------------|--------|--------------------|------------|-----------------|----------|---------|--------|--------------------------|-----------|----------|----------|------------|------|
| Intrinsica Pressure | • | 1 | 2 | 3 | 1 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| UC G | | | | | - | | | | | | | | | | | | |
| Model nun | nber | | | | | Sele | ctive | spec. | | | Addi | tional | spec. | (Optio | n) | | |
| C |) 1ounting | 1 | Туре | ÷Τ | | | | | | | | | | | | | |
| | | 2 | Туре | s S | | | | | | | | | | | | | |
| | 2 | | 3 | 1/4 | Com | patible | with V | CR Mal | e integr | ated | | | | | | | _ |
| | Connect | lon | J K | 1/4 3/8 | VCR | Male n | ut | | | | | | | | | | |
| | | | L | 1/4 | | Fomale | o put (E | Rooring | s are no | tipolu | dod) | | | | | | |
| | | | M | 3/8 | VCh | remaie | | bearing: | | | ueu) | | | | | | |
| | | | N P | 1/4 3/8 | UJR | Male n | ut | | | | | | | | | | |
| | | | Q | 1/4 | | Female | out (V | Vith nur | o ring) | | | | | | | | |
| | | | R W | 3/8 | | i cinaic | , not (v | viti pu | C 1116) | | | | | | | | |
| | | | X | 1/4 3/8 | cvc | Male r | iut | | | | | | | | | | |
| | | | Y | 1/4 | cvc | Female | e nut (E | Bearing | s are no | t inclu | ded) | | | | | | |
| | | | Z | 3/8 6 | | Grade | | | | | - | | | | | | |
| | V | Vetted parts | S | Ŭ | •Pres | ssure se ng: SU | | Co-Ni a | lloy | | | | | | | | |
| | b | y grade | | | ·Fitti | - | | | | | | | | | | | |
| | | | 4 Pres | sure rar | nge | C D | | to 0.3 | | | | | | | | | |
| | | | | | | E | | to 1 MF | | | | | | | | | |
| r | | _ | | | | F 1 | | to 2MF 0.3MP | | | | | | | | | |
| | ify the pressure inits separately | | | | | 2 | | 0.5MP | | | | | | | | | |
| besides sele range code. | | | | | | 3 | | 1MPa | | | | | | | | | |
| | | | | | | 4 5 | | 2MPa 3.5MP | a | | | | | | | | |
| | | | | | | 6 | | 5MPa | | | | | | | | | |
| | | | | | | 7 8 | | 10MPa | - | | | | | | | | |
| | | | | (5) | | 0 | 0.10 | 20MPa | 4 | | | | | | | | _ |
| | | | | Accu | iracy | | 4 | ±0.2 | 25%F.S | - | | | | | | | |
| | | | | | 6 | | | | | | | | | | | | |
| * Option: M12 | 2 Connector C | able | | | - | er sourc | e | Y | 11 to | 28V [| C | | | | | | |
| | M12 Connecto | r Cable | | | | | | | | | | | | | | | |
| | Straight Type L | Cable ler | ngth: 3n | n | | ⑦ Outp | ut | | 1 | 4 to | 20mA I | DC (2-v | vire sys | tem) | | | |
| PUR Cable (Oilproof) | | Cable ler | ooth: 3n | n | | | | | | | | | | | | | |
| PUR Cable | Straight | | 641. 01 | | | | 8 Outle | et for El | ectric | 0 | | Connec | | | | | |
| PUR Cable (Oilproof) PVC Cable (Stainless Nut |) Type L | + | | n | | | Wire | | courio | Ŭ | (With | out Cab | ile / On | ly Pres | sure Se | ensor) | |
| PUR Cable (Oilproof) PVC Cable | | Cable ler | ngth: 5n | | | | | | | | 0 | Nil | | | | | |
| PUR Cable (Oilproof) PVC Cable (Stainless Nut PUR Cable (Oilproof) PVC Cable |) Type L Straight Type L Straight | | | | | | | (15) | | | | | | | | | |
| PUR Cable (Oilproof) PVC Cable (Stainless Nut PUR Cable (Oilproof) |) Type L Straight Type L Straight | - Cable ler | | | | | | 1 × | ument | | 1 | Requi (Please | e specify | | | nents sep | ar |
| PUR Cable (Oilproof) PVC Cable (Stainless Nut PUR Cable (Oilproof) PVC Cable |) Type L Straight Type L Straight | | | | | | | 1 × | ument | | | Requi (Please Subn | | drawin | gs, | nents sep | nara |

*Specify "X" if there is no applicable specification.

EP Grade

Please specify the model number, each specs and the range for ordering.

| ΕJ | 95 | - | | | E | — | | 4 | Y | 1 | 0 | \times | \times | \times | \times | \times | $ \times $ | |
|---|---|--|------------------|----------|--------------|-------|---|--|--|----------------------------|---------------|-------------------------|--|---|--|--|------------|------|
| Intrinsica Pressure EP G | Sensor | | 1 | 2 | 3 | 1 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | (|
| Model nur | | | | | |] | Sele | ective | spec. | | | Addi | tional | spec. | (Optio | n) | | |
| | 1 | | 1 | Туре | ÷Т | | | | | | | | | | | | | |
| N | Mounting | | 2 | Туре | e S | | | | | | | | | | | | | |
| | (2) | | | 3 | 1/4 | Com | patible | with V | CR Mal | e integr | ated | | | | | | | |
| | | nnection | | 4 | 1/2 | Com | patible | with V | CR Mal | e integr | ated | | | | | | | |
| | | | | N | (3/8) 1/4 | | | | | | | | | | | | | |
| | | | | P | 3/8 | UJR | Male n | ut | | | | | | | | | | |
| | | | | Q | 1/4 | UJR | Female | e Nut (V | Vithout | Pure R | ing) | | | | | | | |
| | | | | R | 3/8 | | Grade | | | | 0, | | | | | | | |
| | | ③ Weth by g | ted part rade | S | E | •Pre | | ensor: (S316L | Co-Ni a | lloy | | | | | | | | |
| | | | | (4) | | | С | | to 0.3N | | | | | | | | | |
| | | | | Pres | sure rar | nge | DE | - | to 0.5N to 1MF | | | | | | | | | |
| | | | | | | | F | - | to 2MF | - | | | | | | | | |
| Please spec | cify the nre | | | | | | 1 | 0 to | 0.3MPa | 2 | | | | | | | | |
| | | | | | | | 1 A A A A A A A A A A A A A A A A A A A | 0.0 | 0.3111 | a | | | | | | | | |
| range and u | units sepa | | | - | | | 2 | 0 to | 0.5MPa | | | | | | | | | |
| range and u besides sele range code | units separ lection of | | | - | | | 2 3 | 0 to 0 to | 0.5MPa 1MPa | | | | | | | | | |
| besides sele | units separ lection of | | | - | | | 2 3 4 | 0 to 0 to 0 to | 0.5MPa 1MPa 2MPa | a | | | | | | | | |
| besides sele | units separ lection of | | → | - | | | 2 3 | 0 to 0 to 0 to 0 to | 0.5MPa 1MPa | a | | | | | | | | |
| besides sele | units separ lection of | | | - | | | 2 3 4 5 | 0 to 0 to 0 to 0 to 0 to | 0.5MPa 1MPa 2MPa 3.5MPa | a | | | | | | | | |
| besides sele | units separ lection of | | -> | - | 1 | | 2 3 4 5 6 | 0 to 0 to 0 to 0 to 0 to 0 to 0 to | 0.5MPa 1MPa 2MPa 3.5MPa 5MPa | a a | | | | | | | | |
| besides sele | units separ lection of | | | - | (5) Accu | iracy | 2 3 4 5 6 7 | 0 to 0 to 0 to 0 to 0 to 0 to 0 to | 0.5MPa 1MPa 2MPa 3.5MPa 5MPa 10MPa 20MPa | a a | | | | | | | | |
| besides sele | units separ lection of | | | | | 6 | 2 3 4 5 6 7 | 0 to 0 to 0 to 0 to 0 to 0 to 0 to 4 | 0.5MPa 1MPa 2MPa 3.5MPa 5MPa 10MPa 20MPa | a a 1 25%F.S | 3. 9 28V E | DC | | | | | | |
| besides sele | units separ lection of | | | | | 6 | 2 3 4 5 6 7 8 | 0 to 0 to 0 to 0 to 0 to 0 to 0 to 0 to | 0.5MPa 1MPa 2MPa 3.5MPa 10MPa 20MPa ±0.2 | a a 1 25%F.S |) 28V E |)C 20mA [| DC (2-v | vire sys | tem) | | | |
| besides sele | units separ lection of | rately | | | | 6 | 2 3 4 5 6 7 8 | 0 to 0 to 0 to 0 to 0 to 0 to 0 to 4 4 | 0.5MPa 1MPa 2MPa 3.5MPa 10MPa 20MPa ±0.2 Y | a a 225%F.S 11 to |) 28V E | 20mA [M12 | Connec | tor | | ssure S | ensor) | |
| Coption: M12 | units separ lection of | rately | | | | 6 | 2 3 4 5 6 7 8 | 0 to 0 to 0 to 0 to 0 to 0 to 0 to 0 to | 0.5MPa 1MPa 2MPa 3.5MPa 10MPa 20MPa ±0.2 | a a 225%F.S 11 to | 28V E | 20mA [M12 (Witho | Connec out Cal | tor | | ssure S | ensor) | |
| Coption: M12 | 2 Connect | tor Cable nector Ca | | ngth: 3r | Accı | 6 | 2 3 4 5 6 7 8 | 0 to 0 to 0 to 0 to 0 to 0 to 0 to 4 4 | 0.5MPa 1MPa 2MPa 3.5MPa 10MPa 20MPa ±0.2 Y et for El | a a 225%F.S 11 to | 28V E | 20mA [M12 | Connec out Cak Nil Requi | ctor ble / Or | nly Pres | | | |
| Coption: M12 | 2 Connect M12 Conr Straig Straig | rately for Cable nector Ca ght C ght C | able | | Accı | 6 | 2 3 4 5 6 7 8 | 0 to 0 to 0 to 0 to 0 to 0 to 0 to 4 4 | 0.5MPa 1MPa 2MPa 3.5MPa 10MPa 20MPa ±0.2 Y et for El | a 25%F.S 11 to 1 | 28V E | 20mA E M12 (Witho | Connec out Cab Nil Requi (Please Subm instru | ctor ble / Or red e specify hission uction n | the desiring the d | ed docum gs, | nents sepa | |
| 6 Option: M12 PUR Cable PVC Cable | 2 Connect M12 Conr Straig Straig | for Cable rector Ca sht C sht C sht C sht C | able Cable le | ngth: 3r | Accı | 6 | 2 3 4 5 6 7 8 | 0 to 0 to 0 to 0 to 0 to 0 to 0 to 4 4 | 0.5MPa 1MPa 2MPa 3.5MPa 10MPa 20MPa ±0.2 Y et for El | a 25%F.S 11 to 1 | 28V E | 20mA E M12 (Witho | Connec out Cab Nil Requi (Please Subm instru inspe test r inspe | red e specify hission laction p eport (1 | the desirindrawing the desiring drawing nanual, rocedu 1 pc 1 tracea | ed docum gs, re, mill copy), bility ce | | port |

When ordering the recommended barrier, please specify separately the desired specifications. When using the non-recommended barrier, please observe the "Safety maintenance rating".

Model number configuration

*Specify "X" if there is no applicable specification.