

## Features

- 6bar
- G1/4 mechanical thread
- 4..20MA signal
- 4pin DIN connector
- Infinite resolution
- IP 65

## RS PRO Motion Control Sensor Pressure Transmitter

RS Stock No.: 0813810



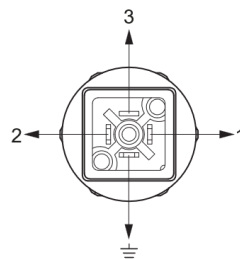
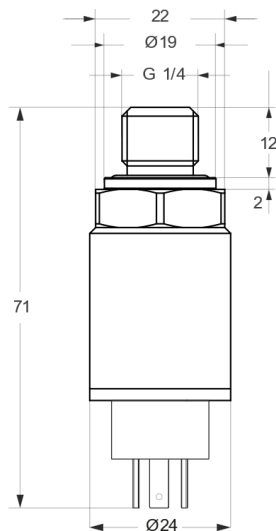
RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

- 0813810 series designed as compact, high robust, accurate pressure transmitter, up to 6 bar pressure measuring range.
- OPTC series pressure transmitters provides absolute pressure rating feedback for wide range of industrial applications.

## Mechanical Specifications

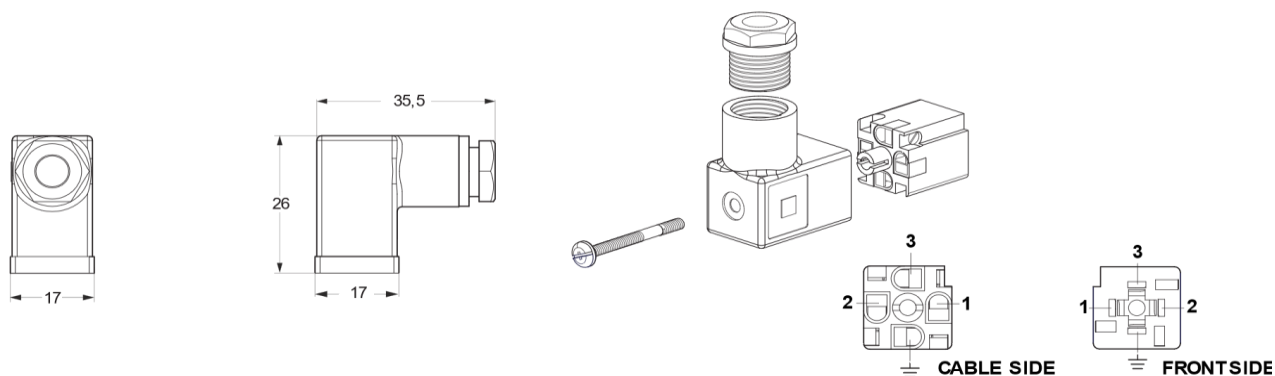
CH2 Connector



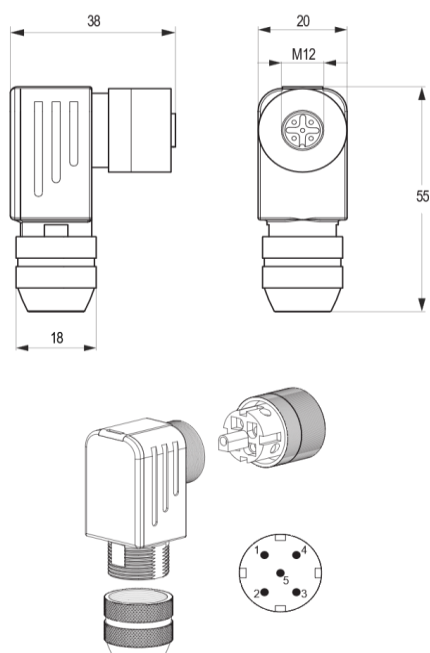
| Voltage output |      | Current output |      |
|----------------|------|----------------|------|
| 1              | 0V   | 1              | +Vs  |
| 2              | Vout | 2              | Iout |
| 3              | +Vs  |                |      |

## Connectors / Cable

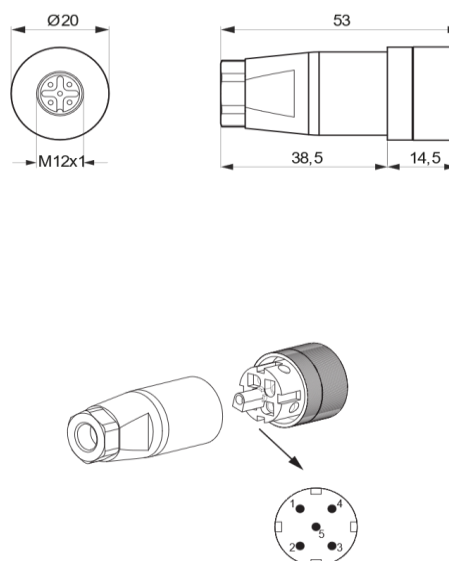
Connector (standard)



CN5AL: M12x1 Connector (optional)



CN5AF: M12x1 Connector (optional)



Mating Connectors Order Procedure

CN5AL: M12x1 Connector (optional)

CN5AF: M12x1 Connector (optional)

## General Specifications

|                        |                                                                                  |
|------------------------|----------------------------------------------------------------------------------|
| Range                  | 6 bar                                                                            |
| Output signal          | 4-20mA                                                                           |
| Mechanical Thread      | G1/4                                                                             |
| Accuracy - Linearity   | Typ : $\pm 0,25\%$ FS (BFSL method) (1)<br>Max. : $\pm 1\%$ FS /BFSL method) (2) |
| Resolution             | Infinite                                                                         |
| Update time            | <1 ms                                                                            |
| Overpressure range     | 2x pressure range                                                                |
| Burst pressure         | 3x pressure range                                                                |
| Power supply           | 8-24 VDC or 12-28 VDC                                                            |
| Power consumption      | Max: 20 mA, <8 mA                                                                |
| Insulation resistance  | >1500 Mohm @250 VDC                                                              |
| Case material          | Stainless steel                                                                  |
| Protection level       | IP 65                                                                            |
| Electrical connections | Reverse polarity                                                                 |
| Storage temperature    | -40°C ... +80°C                                                                  |

## Approvals

|              |                       |
|--------------|-----------------------|
| Declarations | CE, UKCA, ROHS, REACH |
|--------------|-----------------------|

## Type Code

| RS PRO Part Number | MPN                           | Mechanical thread | Pressure Range | Output   | Connector / Cable        |
|--------------------|-------------------------------|-------------------|----------------|----------|--------------------------|
|                    | OPTC 24 G1/4 B10 A I40 C2     | G 1/4             | 10 bar         | 4..20mA  | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B400 A V5 C2     | G 1/4             | 400 bar        | 0..5V dc | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B10 A V5 C2      | G 1/4             | 10 bar         | 0..5V dc | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B16 A I40 C2     | G 1/4             | 16 bar         | 4..20mA  | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B16 A V5 C2      | G 1/4             | 16 bar         | 0..5V dc | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B25 A I40 C2     | G 1/4             | 25 bar         | 4..20mA  | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B100 A I40 C2    | G 1/4             | 100 bar        | 4..20mA  | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B250 A I40 C2    | G 1/4             | 250 bar        | 4..20mA  | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B40 A I40 C2     | G 1/4             | 40 bar         | 4..20mA  | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B25 A V5 C2      | G 1/4             | 25 bar         | 0..5V dc | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B250 A V5 C2     | G 1/4             | 250 bar        | 0..5V dc | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B10 A 100mV C2   | G 1/4             | 10 bar         | 100mV    | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B400 A I40 C2    | G 1/4             | 400 bar        | 4..20mA  | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B10 A I40 CN5A   | G 1/4             | 10 bar         | 4..20mA  | 5pin M12 Round Connector |
|                    | OPTC 24 G1/4 B100 A V5 CN5A   | G 1/4             | 100 bar        | 0..5V dc | 5pin M12 Round Connector |
|                    | OPTC 24 G1/4 B10 A V5 CN5A    | G 1/4             | 10 bar         | 0..5V dc | 5pin M12 Round Connector |
|                    | OPTC 24 G1/4 B100 A V5 C2     | G 1/4             | 100 bar        | 0..5V dc | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B250 A 100mV C12 | G 1/4             | 250 bar        | 100mV    | 12 pin connector         |
|                    | OPTC 24 G1/4 B40 A V5 C2      | G 1/4             | 40 bar         | 0..5V dc | 4pin DIN connector       |

| RS PRO Part Number | MPN                          | Mechanical thread | Pressure Range | Output   | Connector / Cable        |
|--------------------|------------------------------|-------------------|----------------|----------|--------------------------|
|                    | OPTC 24 G1/4 B400 A I40 C2   | G 1/4             | 400 bar        | 4..20mA  | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B400 A V5 C2    | G 1/4             | 400 bar        | 0..5V dc | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B16 A V5 C2     | G 1/4             | 16 bar         | 0..5V dc | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B40 A V5 C2     | G 1/4             | 40 bar         | 0..5V dc | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B25 A 100mV C2  | G 1/4             | 25 bar         | 100mV    | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B100 A 100mV C2 | G 1/4             | 100 bar        | 100mV    | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B250 A I40 C2   | G 1/4             | 250 bar        | 4..20mA  | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B400 A 100mV C2 | G 1/4             | 400 bar        | 100mV    | 4pin DIN connector       |
|                    | OPTC 24 G1/4 B16 A I40 CN4A  | G 1/4             | 16 bar         | 4..20mA  | 4pin M12 Round Connector |
|                    | OPTC 24 G1/4 B25 A I40 CN4A  | G 1/4             | 25 bar         | 4..20mA  | 4pin M12 Round Connector |
|                    | OPTC 24 G1/4 B250 A V5 CN4A  | G 1/4             | 250 bar        | 0..5V dc | 4pin M12 Round Connector |
|                    | OPTC 24 G1/4 B40 A I40 CN4A  | G 1/4             | 40 bar         | 4..20mA  | 4pin M12 Round Connector |
|                    | OPTC 24 G1/4 B25 A V5 CN4A   | G 1/4             | 25 bar         | 0..5V dc | 4pin M12 Round Connector |
|                    | 0813803                      | G 1/4             | 40 bar         | 100mV    | 4pin DIN connector       |
|                    | 0813804                      | G 1/4             | 100 bar        | 4..20mA  | 4pin M12 Round Connector |
|                    | 0813805                      | G 1/4             | 6 bar          | 4..20mA  | 4pin M12 Round Connector |
|                    | 0813807                      | G 1/4             | 6 bar          | 0..5V dc | 4pin M12 Round Connector |
|                    | 0813808                      | G 1/4             | 16 bar         | 100mV    | 4pin DIN connector       |
|                    | 0813809                      | G 1/4             | 6 bar          | 100mV    | 4pin DIN connector       |
|                    | 0813810                      | G 1/4             | 6 bar          | 4..20mA  | 4pin DIN connector       |
|                    | 0813811                      | G 1/4             | 6 bar          | 0..5V dc | 4pin DIN connector       |