

DCT 533

Industrial Pressure Transmitter with IO-Link Interface

Stainless Steel Sensor

accuracy according to IEC 60770:
standart: $\leq \pm 0.35$ % FSO
sption: $\leq \pm 0.25$ % FSO



Nominal pressure

from 0 ... 100 mbar up to 0 ... 400 bar

Digital output signals

- IO-Link according to specification V 1.1
- Data transfer 38.4 kBaud
- Smart sensor profile

Special characteristic

- ▶ perfect thermal behaviour
- ▶ excellent long term stability

Optional versions

- ▶ pressure port
G 1/2" flush up to 40 bar
- ▶ welded sensor
- ▶ customer specific versions

IO-Link is a digital interface for sensors and actuators, which is worldwide standardized by IEC 61131-9. IO-Link does not have a bus topology, but it is a powerful point-to-point communication, where the device can be parametrized and the measured values transferred. The integration to the master is easy by using the IO-Link file.

The sensor technology of the DCT 533 is the same as those of the proven pressure transmitter DMP 331 / DMP 333, whereby the DCT 533 is suitable for almost every industrial application, if medium is compatible with stainless steel 316L.

The modular concept of the pressure transmitter allows customized electrical or mechanical connections, so it is easy to adapt the DCT 533 to different conditions on-site.

Preferred areas of use are



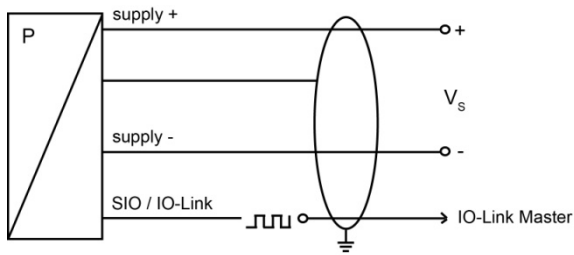
Plant and Machine Engineering



Energy Industry



Wiring diagrams

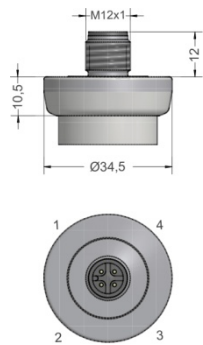


Pin configuration

Electrical connection	M12x1 / metal (4-pin)	Binder 723 (5-pin)	cable colours (DIN 47100)
Supply +	1	1	wh (white)
Supply -	3	3	bn (brown)
SIO / IO Link	4	4	gn (green)
Shield	housing	housing	ye/gn (yellow / green)

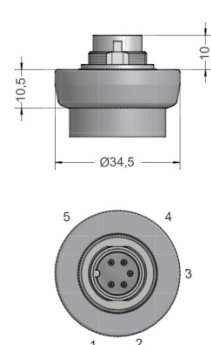
Electrical connections (dimensions in mm)

standard

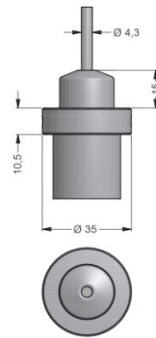


M12x1 4-pin
(IP 67)

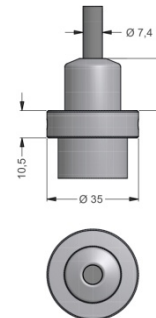
option



Binder Series 723 5-pin
(IP 67)



cable outlet with PVC cable
(IP 67)⁵



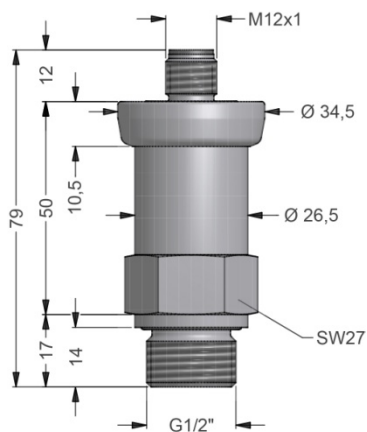
cable outlet, cable with ventilation tube
(IP 68)⁶

⁵ standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70°C)

⁶ different cable types and lengths available, permissible temperature depends on kind of cable

Mechanische Anschlüsse (Maße in mm)

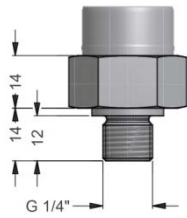
standard



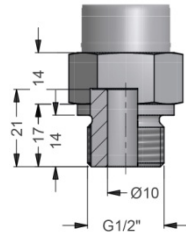
G1/2" DIN 3852
with M12x1

Mechanical connections (dimensions in mm)

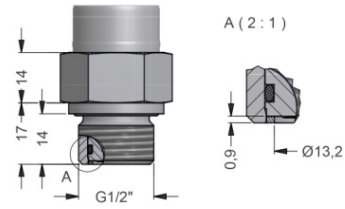
option



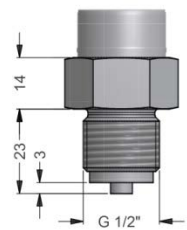
G1/4" DIN 3852



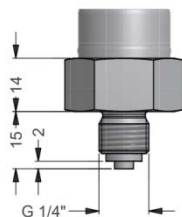
G1/2" open port



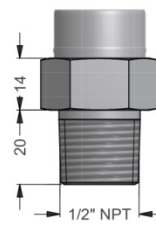
G1/2" DIN 3852
with flush sensor



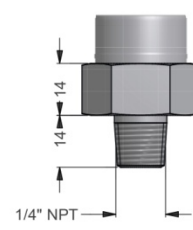
G1/2" EN 837



G1/4" EN 837



1/2" NPT



1/4" NPT

⇒ metric threads and other versions on request

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