

TH Analog / CANbus / SSI Product Brief

- ▶ **Global approvals:**
ATEX / IECEx / CEC / NEC / EAC Ex /
Japanese approval
- ▶ **Flameproof /
Explosionproof /
Increased safety**
- ▶ **Optional: Measure 2 or more positions
simultaneously**



FEATURES

The housing of the Tempsonics® T-Series TH position sensor is extremely robust. The sensor is designed for continuous operation in hazardous areas.

The sensor's electronics housing contains active signal conditioning and a complete integrated electronics interface. The rugged sensor rod is capable of withstanding high pressures such as those found in hydraulic cylinders. The sensor is available in a completely stainless steel design 1.4305 (AISI 303) and a highly corrosion-resistant stainless steel version 1.4404 (AISI 316L).

CERTIFICATIONS

T-Series sensors are certified for hazardous areas in Zone 0/1, Zone 1, Zone 2, Zone 21 and Zone 22 for Europe (ATEX), the global (IECEx), the Russian (EAC Ex) and the Japanese market, as well as for use in Class I, II, III, Division 1, Division 2 for Canada (CEC) and USA (NEC).

TYPICAL APPLICATIONS

Fuel control, hazardous chemical, petrochemical, grain processing, automatic shutdown and process safety demanding industries.

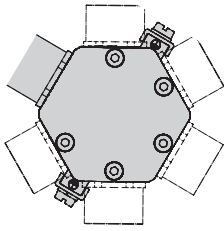
AVAILABLE OUTPUTS

Analog	4(0)...20 mA 20...4(0) mA	Measure up to 2 positions simultaneously	See data sheet for more information TH Analog (Document part no. 551385)
CANbus	CAN-Fieldbus System according to ISO 11898	Measure up to 4 positions / velocities simultaneously	See data sheet for more information TH CANbus (Document part no. 551881)
SSI NEW	SSI (Synchronous Serial Interface) – differential signal in SSI standard (RS 422)	Differentiation measurement between 2 positions	See data sheet for more information TH SSI (Document part no. 551950)



For non-hazardous areas the sensor is also available with ingress protection IP66, IP67, IP68, IP69K, NEMA 4X (depending on cable gland). It is the ideal solution for rough duty environments.

Side connection C01 / N01 / NF1 (with adapter) / M01 (without adapter)

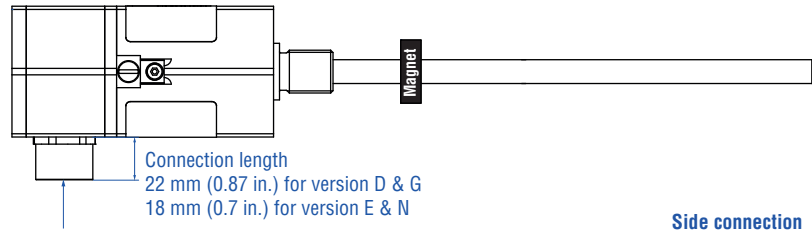


C01 / N01:

Connector on 6 different positions at 60° each

NF1:

Connector on 4 different positions at 60° each



Side connection

Connection length
22 mm (0.87 in.) for version D & G
18 mm (0.7 in.) for version E & N

Side connection

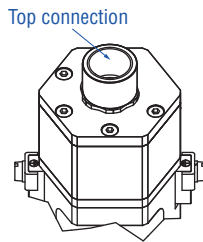
N01: M20×1.5-6H thread

NF1: M20×1.5-6H thread

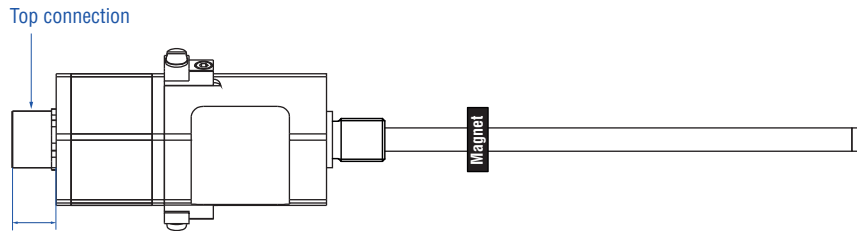
C01: 1/2"-14 NPT thread

M01: M16×1.5-6H thread

Top connection C10 / N10 (with adapter) / M10 (without adapter)



Top connection



Connection length
22 mm (0.87 in.) for version D & G
18 mm (0.7 in.) for version E & N

Top connection

N10: M20×1.5-6H thread

C10: 1/2"-14 NPT thread

M10: M16×1.5-6H thread

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