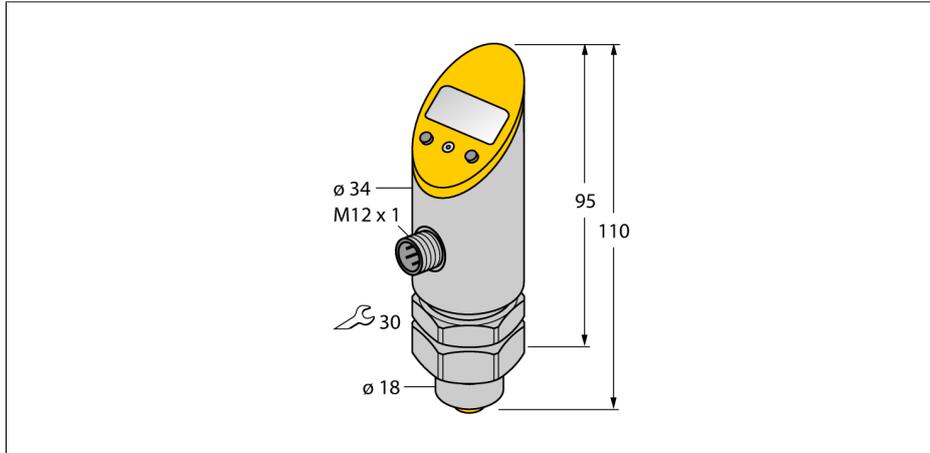
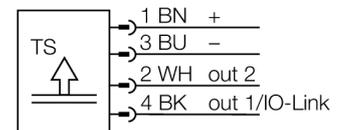


Temperature measurement
2 PNP/NPN transistor switching outputs
TS-500-2UPN8X-H1141



- Rotatable after mounting the process connection
- Reading of adjusted values without tools
- Secure programming through recessed pushbutton and keylock
- Permanent display of temperature unit (°C, °F, K, Ohm)
- Temperature peak memory
- Temperature range -50...500 °C

Wiring diagram



General description

The TS series is a compact processing unit with a 4-digit 7-segment display. Available are versions with non-rotatable (TS400) or rotatable (TS500) sensor body and various output types.

Type	TS-500-2UPN8X-H1141
Ident-No.	6840018
Temperature operating range	-50...500 °C
Repeatability	0.1 K
Switching point accuracy	0.2 K
Release points	-50...499.8°C
Switching point	-49.8...500°C
Switch point SP1	-50.2°C ... 500 °C
Ambient temperature	-40...+80 °C
Storage temperature	-40...+80°C
Operating voltage	15...30VDC
Protective measure	SELV; PELV according to EN 50178
Voltage drop at I _s	≤ 2 V
No-load current I _s	≤ 50 mA
Switching frequency	≤ 180 Hz
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO/NC programmable, PNP/NPN
IO-Link	
Communication	specified acc. to version 1.0
Parameterization	FDT / DTM
Transmission physics	corresponds to 3-wire physics (PHY2)
Transmission rate	COM 2 / 38.4 kbps
Process data width	16 bit
Measured value information	14 bit
Switchpoint information	2 bit
Frame type	2.3
Rated operational current	0.2 A
Protection class	IP67
Protection class	III
Housing material	Stainless-steel/plastic, V2A (1.4305)
Connection	connector, M12 x 1
Coupling nut wrench size	30
Vibration resistance	20 g (9...2000 Hz), according to IEC 68-2-6
Shock resistance	50 g (11 ms), according to IEC 61508
Mechanical connection	Cylindrical, Ø 18mm
Display	4-digit 7-segment, rotatable by 180°
Unit display	4 x green LED (°C, °F, K, Ohm)
Switching state	2 x LEDs yellow
Programming options	Switch/release point, hysteresis/window mode, NO/NC; unit

Temperature measurement
2 PNP/NPN transistor switching outputs
TS-500-2UPN8X-H1141

EMC

EN 61000-4-2 ESD:4 kV CD / 8 kV AD
EN 61000-4-3 HF radiated:15 V/m
EN 61000-4-4 Burst:2 kV
EN 61000-4-5 Surge: 1 kV, 42 Ohm
EN 61000-4-6 HF conducted:10 V

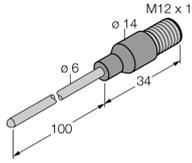
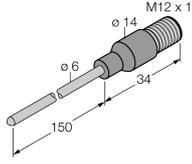
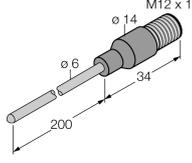
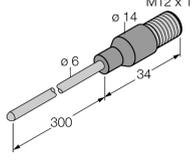
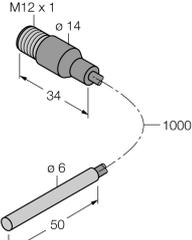
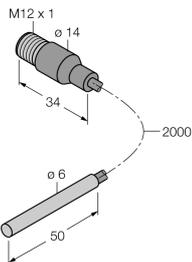
Temperature measurement
2 PNP/NPN transistor switching outputs
TS-500-2UPN8X-H1141

Accessories

Type code	Ident-No.	Short text	Dimension drawing
TP-103A-G1/8-H1141-L013	9910400	temperature detector for liquid and gaseous media	
TP-103A-G1/8-H1141-L024	9910401	temperature detector for liquid and gaseous media	
TP-104A-TRI3/4-H1141-L035	9910429	temperature detector for liquid and gaseous media	
TP-104A-TRI3/4-H1141-L100	9910430	temperature detector for liquid and gaseous media	
TP-104A-DN25K-H1141-L035	9910431	temperature detector for liquid and gaseous media	
TP-104A-DN25K-H1141-L100	9910432	temperature detector for liquid and gaseous media	

Temperature measurement
2 PNP/NPN transistor switching outputs
TS-500-2UPN8X-H1141

Accessories

Type code	Ident-No.	Short text	Dimension drawing
TP-206A-CF-H1141-L100	9910475	temperature detector for liquid and gaseous media	
TP-206A-CF-H1141-L150	9910476	temperature detector for liquid and gaseous media	
TP-206A-CF-H1141-L200	9910477	temperature detector for liquid and gaseous media	
TP-206A-CF-H1141-L300	9910478	temperature detector for liquid and gaseous media	
TP-306A-CF-H1141-L1000	9910479	temperature detector for liquid and gaseous media	
TP-306A-CF-H1141-L2000	9910480	temperature detector for liquid and gaseous media	

Temperature measurement
2 PNP/NPN transistor switching outputs
TS-500-2UPN8X-H1141



Accessories

Type code	Ident-No.	Short text	Dimension drawing
TP-306A-CF-H1141-L5000	9910481	temperature detector for liquid and gaseous media	
PTS-Cover	6907410	Protective cap	