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JUMO Process Control, Inc.
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JUMO DELOS T

Electronic temperature switch with display and analog output

- For temperatures between -50 and +260 °C (+500 °C)
- EHEDG certification
- Configuration performed with the rotary encoder on the temperature switch or setup program
- M12 × 1 connector; protection type IP67 according to DIN EN 60529 with pushed in machine connector
- Positively lit LCD display

Application

- Food & pharmaceutical
- CIP/SIP systems
- Machine and plant engineering
- Air conditioning and refrigeration applications

Brief description

The highly-precise, electronic temperature switch consists of a protection tube with built-in temperature sensor, a process connection, and an attached case with LCD display for the electronics. Depending on the application, the following output variants are available: 1× PNP or 2× PNP switching output (binary output) or 1× PNP switching output and 1× analog output. The configuration of the output signal and the measuring range can be customized. Depending on the version, the electronic temperature switch can be used in an operating temperature range from -50 to +150 °C, -50 to +260 °C, and -50 to +500 °C. The analog output signal 4 to 20 mA, 0 to 20 mA, 0 to 10 V or reversed 20 to 4 mA, 20 to 0 mA, and 10 to 0 V is available in a linearized fashion (temperature linear). The electronic temperature switch is designed for industrial use and complies with the European standards to guarantee electromagnetic compatibility (EMC).

Note: also available as precision pressure transmitter JUMO DELOS SI, see data sheet 405052.

Technical data

Electrical connection	Machine connector M12 × 1, 4-pin according to IEC 60947-5-2
Process connections	Screw connection G 1/4, G 3/8, and G 1/2 Screw connection M12 × 1.5; M18 × 1.5 and M20 × 1.5 Screw connection 1/2-14NPT Union nut G 3/8 Pipe screw connection G 1/4 and G 1/2 Screw connection G 1/2 with CIP-compliant conical seal and EHEDG certification Taper socket with union nut (milk pipe screw connection) Clamping socket (clamp) Ball weld-in socket with clamping screw connection Welding socket with CIP-compliant conical seal Varivent connections with EHEDG certification JUMO PEKA with EHEDG certification
Protection tube	Stainless steel 316 L, material no. 1.4404/1.4435 Stainless steel 316 Ti, material no. 1.4571
Protection type	IP67 according to DIN EN 60529 with the pushed in machine connector
Response time	t _{0.5} : 3 s in water 0.4 m/s t _{0.9} : 8 s in water 0.4 m/s
Measuring insert	Pt1000 temperature sensor, DIN EN 60751, class A or AA (1/3 DIN B), 4-wire circuit

Approvals/approval marks (see "Technical data")



Basic type 902940/10

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Technical data

General

Reference conditions	DIN 16086 and DIN EN 60770
Display	Positively lit LCD display
Alignment	The display can be mirror-imaged by 180° using the setup program After installation, the display case can be swiveled to the left or right by ±160° (use the combination tool)
Size	Display 16 × 26 mm / font size 7 mm / 2× 4-digit
Color	Standard operation: amber Error: red (text "Err", error code 1 to 9 flashes) Setup interface occupied: red
Switching status display	K1, K2
Temperature unit	°C or °F
Operation	
On the device	With the rotary encoder beneath the sealing screw with combination tool or screwdriver 0.5 × 3 mm or Allen key with width across flats SW 2
With PC	Via the setup program with PC interface

Input

Measuring input (sensor)	1× Pt1000 temperature sensor, 4-wire circuit
Measuring range	Basic type 902940/10: -50 to +150 °C Basic type 902940/30: -50 to +260 °C Basic type 902940/50: -50 to +500 °C
Limit deviations	0.15 + 0.002 × t ^a , class A (standard) 0.10 + 0.0017 × t ^a , class AA (1/3 DIN B)

^a |t| is the numerical value of the temperature in °C without consideration of the prefix.

Measuring circuit monitoring

Probe short-circuit Probe and cable break Measuring range gone below Measuring range exceeded	Analog output 0 to 20 mA, 0 mA or 22 mA configurable Analog output 4 to 20 mA, 3.4 mA or 22 mA configurable Analog output 0 to 10 V, 0 V or 10.7 V configurable Switching outputs, low Additional error message on the LCD display
--	--

Outputs

All analog outputs in 3-wire circuit/open collector, PNP switching output

Analog output	
Can be freely configured	4 to 20 mA and 1× PNP switching output 0 to 20 mA and 1× PNP switching output 0 to 10 V and 1× PNP switching output
Switching output	
Quantity	1× PNP switching output 2× PNP switching output
Switching type	N/C / N/O
Switching function	Window / hysteresis
Contact rating	
• Voltage drop from U _B	PNP ≤ 2 V
• Switching capacity	ON ≤ 250 mA/OFF ≤ 1 mA
• Switching cycles	> 10 million
Reaction time	At 50 Hz: ≤ 200 ms At 60 Hz: ≤ 320 ms
Short-circuit proof	Yes

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Load check, current - Pulse period - Periodic protection circuit for overcurrent	2 s; T_{ON} 40 ms $f = 0.5$ Hz LCD display: Err3 switching output K1, Err4 switching output K2
Scaling range Analog output Behavior when leaving the scaling area (underrange) Behavior when leaving the scaling area (overrange)	Scaling can be freely selected within the measuring range Analog output 0 to 20 mA, linear drop up to 0 mA Analog output 4 to 20 mA, linear drop up to 3.8 mA Analog output 0 to 10 V, linear drop up to 0 V Analog output 0 to 20 mA, linear increase up to 20.5 mA Analog output 4 to 20 mA, linear increase up to 20.5 mA Analog output 0 to 10 V, linear increase up to 10.2 V
Switching output - Switching point - Release point - Attenuation - Switch-on delay	Measuring range (> release point) Measuring range (< switching point) 0.00 to 99.99 s 0.00 to 99.99 s
Burden 4 to 20 mA 0 to 20 mA 0 to 10 V	$R_I \geq (U_B - 6.5 \text{ V}) / 0.022 \text{ A}$ $R_I \geq (U_B - 6.5 \text{ V}) / 0.022 \text{ A}$ $R \geq 10 \text{ k}\Omega$

Ambient conditions

Admissible temperatures Ambient temperature, display case Ambient temperature Storage temperature	-25 to +75 °C -50 °C; restricted function only stationary use, risk of cable break, LCD display without function -40 to +85 °C
Admissible air humidity - During operation - In storage	100 % including condensation on the device outer case 90 % without condensation
Admissible mechanical load - Vibration resistance - Shock resistance	Referring to basic type 902940/10 and 902940/30 with insertion length 100 mm 10 g, 10 to 2000 Hz according to IEC 60068-2-6 50 g for 11 ms / 100 g for 1 ms according to IEC 60068-2-27
Electromagnetic compatibility - Interference emission - Interference immunity	(Only with 4-pin connecting cable and grounded case) Class A according to EN 61326 Performance characteristic A according to EN 61326
Protection type	IP67 according to DIN EN 60529
Ambient temperature influence	$\leq \pm(15 \text{ ppm/K} \times (\text{measuring range end value} + 200) + 50 \text{ ppm/K} \times \text{configured measuring range}) \times \Delta\vartheta$ $\Delta\vartheta$ = deviation of the ambient temperature from the reference temperature
Calibration/reference conditions	DC 24 V at 25 °C ± 5 °C (77 °F ± 9 °F)

Accuracy of entire device

Measured value	Tolerance
100 °C	0.60 K
150 °C	0.75 K
200 °C	1.00 K
450 °C	1.60 K

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Auxiliary energy

Voltage supply	DC 12 to 30 V (nominal voltage supply DC 24 V) Residual ripple: ensure that the voltage spikes do not exceed or fall below the specified values for the voltage supply DC 12 to 30 V DC 14 to 30 V
• At output 0(4) to 20 mA	
• At output 0 to 10 V	
Reverse voltage protection	Yes
Power consumption	≤ 45 mA without load, ≤ 545 mA with load 2× PNP switching output
Electrical connection	Machine connector M12 × 1, 4-pin according to IEC 60947-5-2, A-coded
Electrical circuit	SELV
Influence of the voltage supply	≤ 0.01 %/V deviation from DC 24 V ^a

^a %-specifications refer to the measuring range end value of 20 mA/10 V.

Approval/approval marks

Approval marks	Inspection authority	Certificate / inspection number	Inspection basis	Valid for
EHEDG	TUM MAK	No. 03/2006	Document no. 8	Process connection 997 JUMO PEKA
EHEDG	TNO	No. C03-5145	Document no. 8	380 screw connection with CIP-compliant conical seal

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Connection diagram

The connection diagram in the data sheet provides preliminary information about the connection possibilities. For the electrical connection only use the installation instructions or the operating manual. The knowledge and the correct technical execution of the safety information/instructions contained in these documents are mandatory for installation, electrical connection, and startup as well as for safety during operation.

Order code 470		Order code 471		Order codes 475, 476, and 477	
1× PNP switching output		2× PNP switching output		1× PNP switching output and 1× analog output	
Voltage supply		Voltage supply		Voltage supply	
1 L+	DC 12 to 30 V	1 L+	DC 12 to 30 V	1 L+	DC 12(14) to 30 V
3 L-	GND	3 L-	GND	3 L-	GND
Output		Output		Output	
4 K1	Highside Open Collector max. 0.25 A	2 K2	Highside Open Collector max. 0.25 A	2 analog	0(4) to 20 mA/0 to 10 V
2	nc	4 K1		4 K1	Highside Open Collector max. 0.25 A
5	Interface	5	Interface	5	Interface

Assignment: M12 × 1 machine connector

1 bn	Brown	4 bk	Black
2 wh	White	5 gy	Gray
3 bu	Blue		

The assignment **only** applies to A-coded standard cables.

The connection is located on the rear of the temperature switch!

Connection diagram (sensor)

Machine connector M12 × 1, 4-pin according to IEC 60947-5-2	Electrical connection	Terminal assignment
	Basic type 902940/50	
	RTD temperature probe in 4-wire circuit (input)	

Top view of the machine connector at the corresponding RTD temperature probe!

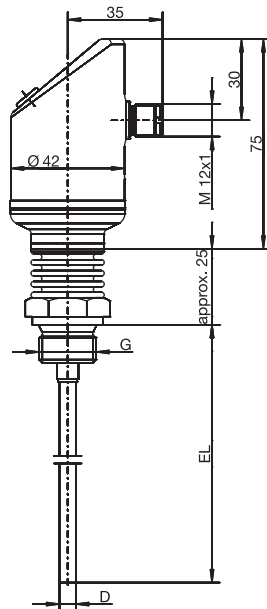
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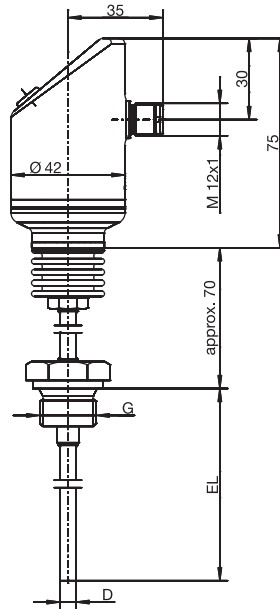
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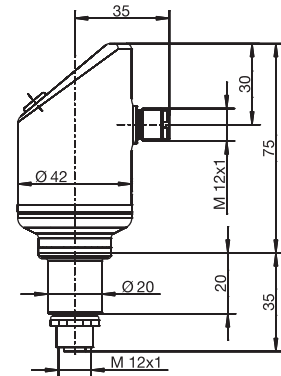
Dimensions – basic types



Basic type 902940/10

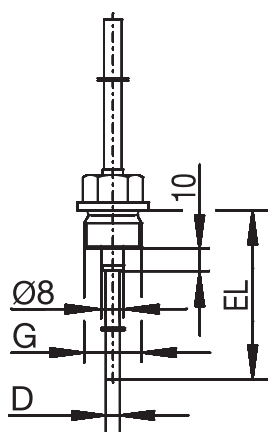


Basic type 902940/30
with extension tube



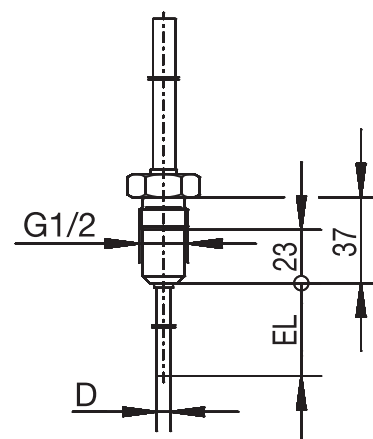
Basic type 902940/50
with M12 × 1 plug connection
for RTD temperature probes

Dimensions – process connections (PA)



PA	G
103	3/8
104	1/2

Screw connection



PA	
380	

Screw connection with CIP-compliant conical seal

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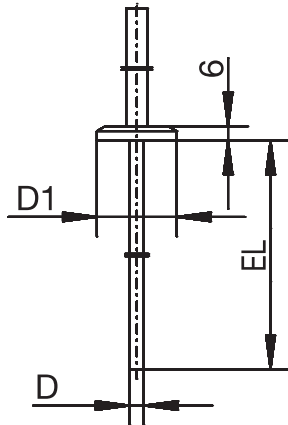
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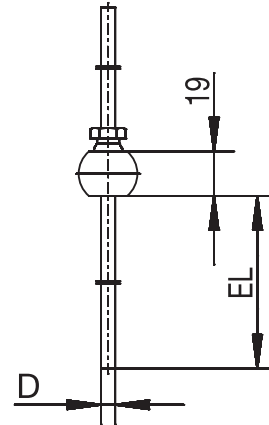
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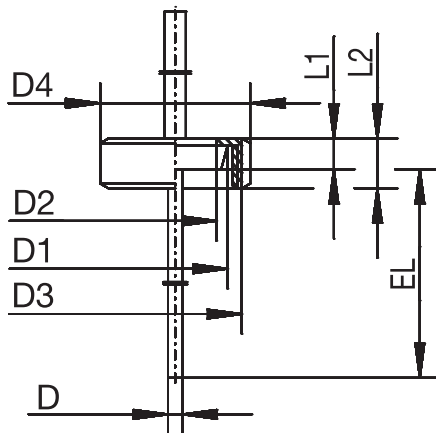
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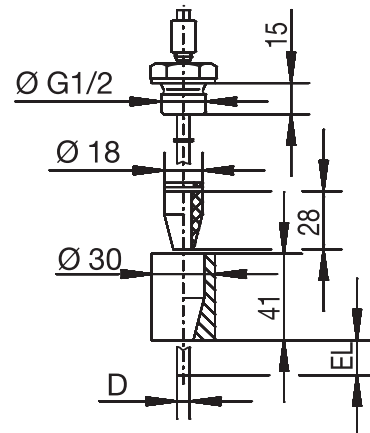
PA	DN	D1
-	-	Ø 25
611	10/20	Ø 34
613	25/1"	Ø 50.5

Clamping socket according to DIN 32676 (clamp)

PA	
681	

Ball weld-in socket with clamping screw connection

PA	DN	D1	D2	D3	D4	L1	L2
601	10	Ø 22	Ø 18	RD 28 × 1/8	Ø 38	9	18
604	25	Ø 44	Ø 35	RD 52 × 1/6	Ø 63	13	21
605	32	Ø 50	Ø 41	RD 58 × 1/6	Ø 70	13	21

Clamping socket with union nut according to DIN 11851 (milk pipe screw connection)

PA	
682	

Welding socket with CIP-compliant conical seal

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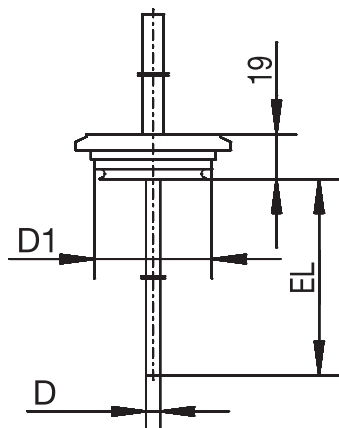
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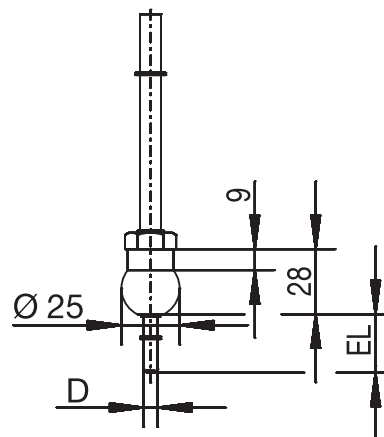
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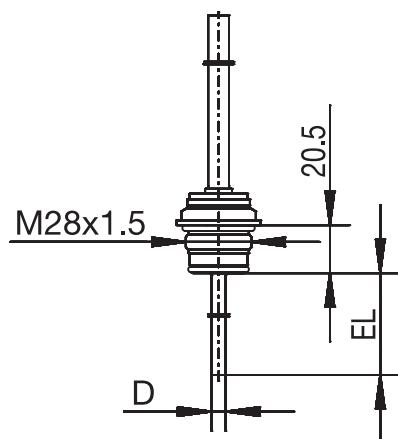
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PA	DN	D1
684	15/10	Ø 31
685	32/25	Ø 50
686	50/40	Ø 68

Varivent connection

PA	
840	

Spherical welding sleeve

Varivent	Clamp	Aseptic	Welding socket
DN 25/32	DN 25/32/40	DN 40	Ø 55 mm
DN 40-125	DN 50	DN 50	-
-	-	NKS DN 40	-

JUMO PEKA PA 997**Process connection adapter, data sheet 409711**

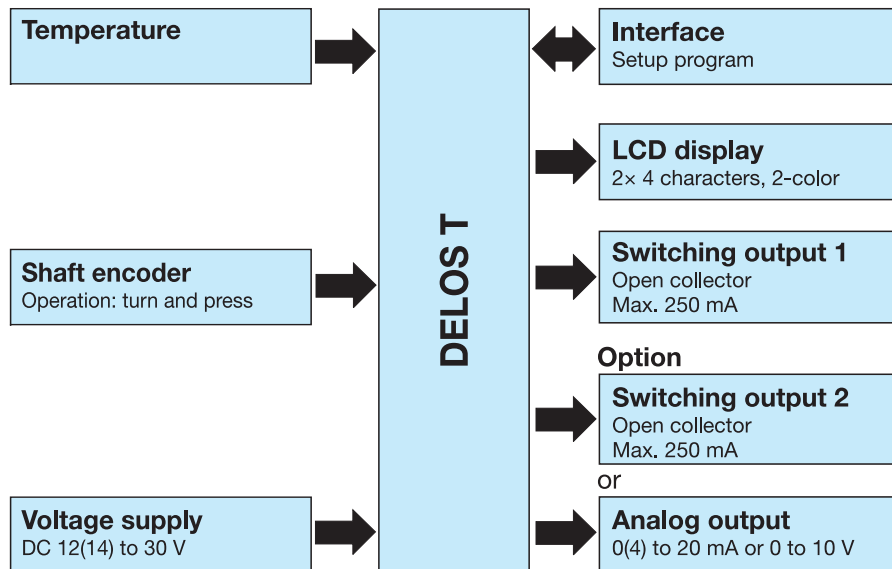
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Block diagram



Special features

- Measuring range can be freely scaled
- 2-color LCD display with alarm function
- Analog output configurable
- Up to 500 °C medium temperature
- Programmable on the device or with the setup program

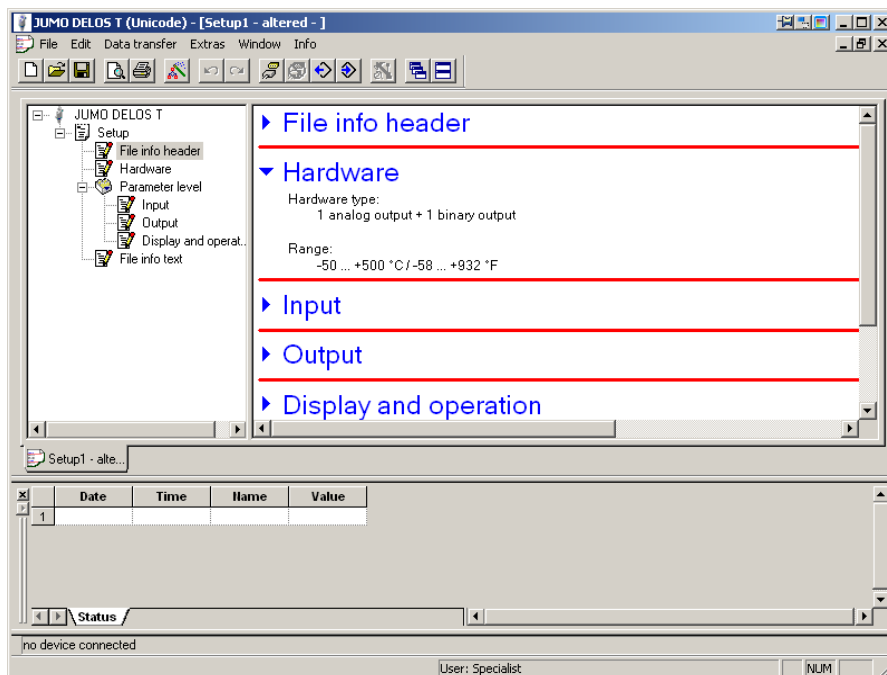
Setup program

The setup program (accessories) is used to configure the temperature switch with a PC.

The configuration data can be archived and printed on the PC.

The setup program can be used to overwrite changed parameters with the factory setting at any time.

The connection between temperature switch and PC is established using a PC interface (USB/TTL converter) with adapter (USB connecting cable) and transmitter cable (Y cable).



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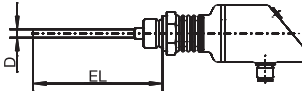
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Order details

(1) Basic type^a		
902940/10	DELOS T	
	Electronic temperature switch with display and analog output Ambient temperature for the display case: -20 to +75 °C Parts coming into contact with the medium are electropolished, roughness depth $\leq 0.8 \mu\text{m}$	
(2) Version		
x	8	Standard with factory settings
x	9	Customer-specific configuration (specifications in plain text)
(3) Operating temperature in °C		
x	370	-50 to +150 °C
(4) Measuring insert		
x	1013	1× Pt1000 in 4-wire circuit
(5) Tolerance class according to DIN EN 60751		
x	2	Class A (standard)
x	3	Class AA (1/3 DIN B)
(6) Output		
x	470	1× PNP switching output
x	471	2× PNP switching output
x	475	1× PNP switching output and 1× analog output 4 to 20 mA, configurable
x	476	1× PNP switching output and 1× analog output 0 to 20 mA, configurable
x	477	1× PNP switching output and 1× analog output 0 to 10 V, configurable
(7) Protection tube diameter D in mm		
x	6	Ø 6 mm
(8) Insertion length EL in mm (50 to 1000 mm)		
x	50	50 mm
x	100	100 mm
x	150	150 mm
x	...	Please specify in plain text (50 mm steps)
(9) Process connection PA		
x	000	None (smooth protection tube made out of stainless steel 316L)
x	102	Screw connection G 1/4 (stainless steel 316Ti)
x	103	Screw connection G 3/8 (stainless steel 316Ti)
x	104	Screw connection G 1/2 (stainless steel 316Ti)
x	118	Screw connection M12 × 1.5 (stainless steel 316Ti)
x	126	Screw connection M18 × 1.5 (stainless steel 316Ti)
x	128	Screw connection M20 × 1.5 (stainless steel 316Ti)
x	144	Screw connection 1/2-14NPT (stainless steel 316Ti)
x	163	Union nut G 3/8 (stainless steel 316Ti)
x	380	Screw connection G 1/2 with CIP-compliant conical seal and EHEDG certificate (stainless steel 316L)
x	601	Taper socket with union nut DN 10 DIN 11851 (milk pipe screw connection) (stainless steel 316L)
x	604	Taper socket with union nut DN 25 DIN 11851 (milk pipe screw connection) (stainless steel 316L)

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JUMO Process Control, Inc.

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x	605	Taper socket with union nut DN 32 DIN 11851 (milk pipe screw connection) (stainless steel 316L)
x	613	Clamping socket (clamp) DN 25/40 (1"/1.5") DIN 32676 (stainless steel 316L)
x	616	Clamping socket (clamp) DN 50 (2") DIN 32676 (stainless steel 316L)
x	617	Clamping socket (clamp) 2.5" similar to DIN 32676 (stainless steel 316L)
x	681	Ball weld-in socket with clamping screw connection (stainless steel 316L)
x	682	Welding socket with CIP-compliant conical seal (stainless steel 316L)
x	685	Varivent connection DN 32/25 with EHEDG certificate (stainless steel 316L)
x	686	Varivent connection DN 50/40 with EHEDG certificate (stainless steel 316L)
x	840	Spherical welding sleeve (stainless steel 316Ti)
x	997	JUMO PEKA with EHEDG certificate (stainless steel 316L) (compatible process connection adapter, see data sheet 409711)

(10) Extra codes

x	000	None
x	310	Protection tube Ø 6 mm stepped down to Ø 3.8 mm (insertion length EL max. 800 mm)
x	810	Welding socket (only for process connection 380)

^a Product is not intended for export to the USA.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)										
Order code		-		-		-		-		-		/		, ... ^a						
Order example	902940/10	-	8	-	370	-	1013	-	2	-	475	-	6	-	50	-	104	/	000	

^a List extra codes in sequence, separated by commas.

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Scope of delivery

1 device in the ordered version
1 combination tool (required for operation on the device and after installation to turn the display case $\pm 160^\circ$ to the left or right)
1 operating manual B 902940.0

Accessories for process connection

Article	Part no.
Pipe screw connection G 1/4 (stainless steel 316Ti) for protection tube connections	00080811
Pipe screw connection G 1/2 (stainless steel 316Ti) for protection tube connections	00305445

Accessories

Article	Part no.
Setup program on CD-ROM, multilingual	00550018
Transmitter cable (Y cable) (required for the configuration with the setup program)	00507861
PC interface with USB/TTL converter and adapter (USB connecting cable) (required for the configuration with the setup program)	00456352
Combination tool (required for operation on the device and after installation to turn the display case $\pm 160^\circ$ to the left or right)	00526614
Cable box, 4-pin (straight) M12 $\times$ 1 with PVC connecting cable length 2000 mm (can be used for assembly)	00404585
Cable box, 4-pin (angled) M12 $\times$ 1 with PVC connecting cable length 2000 mm (can be used for assembly)	00409334

Stock versions

Order code	Part no.
902940/10-8-370-1013-2-475-6-50-104/000	00552544
902940/10-8-370-1013-2-475-6-100-104/000	00550991
902940/10-8-370-1013-2-475-6-150-104/000	00552545
902940/10-8-370-1013-2-475-6-200-104/000	00552547
902940/10-8-370-1013-2-475-6-150-000/000	00551003

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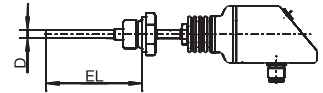
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Order details

(1) Basic type^a

902940/30 DELOS T
Electronic temperature switch
with display and analog output
with extension tube for higher medium temperatures
Ambient temperature at the display case: -20 to +75 °C
Parts coming into contact with the medium are electropolished,
roughness depth $Ra \leq 0.8 \mu m$

**(2) Version**

- x 8 Standard with factory settings
- x 9 Customer-specific configuration (specifications in plain text)

(3) Operating temperature in °C

- x 386 -50 to +260 °C

(4) Measuring insert

- x 1013 1× Pt1000 in 4-wire circuit

(5) Tolerance class according to DIN EN 60751

- x 2 Class A (standard)
- x 3 Class AA (1/3 DIN B)

(6) Output

- x 470 1× PNP switching output
- x 471 2× PNP switching output
- x 475 1× PNP switching output and 1× analog output 4 to 20 mA, configurable
- x 476 1× PNP switching output and 1× analog output 0 to 20 mA, configurable
- x 477 1× PNP switching output and 1× analog output 0 to 10 V, configurable

(7) Protection tube diameter D in mm

- x 6 $\varnothing 6 \text{ mm}$

(8) Insertion length EL in mm (50 to 1000 mm)

- x 50 50 mm
- x 100 100 mm
- x ... Please specify in plain text (50 mm steps)

(9) Process connection PA

- x 000 None (smooth protection tube made out of stainless steel 316L)
- x 102 Screw connection G 1/4 (stainless steel 316Ti)
- x 103 Screw connection G 3/8 (stainless steel 316Ti)
- x 104 Screw connection G 1/2 (stainless steel 316Ti)
- x 118 Screw connection M12 × 1.5 (stainless steel 316Ti)
- x 126 Screw connection M18 × 1.5 (stainless steel 316Ti)
- x 128 Screw connection M20 × 1.5 (stainless steel 316Ti)
- x 144 Screw connection 1/2-14NPT (stainless steel 316Ti)
- x 163 Union nut G 3/8 (stainless steel 316Ti)
- x 380 Screw connection G 1/2 with CIP-compliant conical seal and EHEDG certificate (stainless steel 316L)
- x 601 Taper socket with union nut DN 10 DIN 11851 (milk pipe screw connection) (stainless steel 316L)
- x 604 Taper socket with union nut DN 25 DIN 11851 (milk pipe screw connection) (stainless steel 316L)

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x	605	Taper socket with union nut DN 32 DIN 11851 (milk pipe screw connection) (stainless steel 316L)
x	611	Clamping socket (clamp) DN 10/20 DIN 32676 (stainless steel 316L)
x	613	Clamping socket (clamp) DN 25/40 (1"/1.5") DIN 32676 (stainless steel 316L)
x	616	Clamping socket (clamp) DN 50 (2") DIN 32676 (stainless steel 316L)
x	617	Clamping socket (clamp) 2.5" similar to DIN 32676 (stainless steel 316L)
x	681	Ball weld-in socket with clamping screw connection (stainless steel 316L)
x	682	Welding socket with CIP-compliant conical seal (stainless steel 316L)
x	684	Varivent connection DN 15/10 with EHEDG certificate (stainless steel 316L)
x	685	Varivent connection DN 32/25 with EHEDG certificate (stainless steel 316L)
x	686	Varivent connection DN 50/40 with EHEDG certificate (stainless steel 316L)
x	840	Spherical welding sleeve (stainless steel 316Ti)
x	997	JUMO PEKA with EHEDG certificate (stainless steel 316L) (compatible process connection adapter, see data sheet 409711)

(10) Extra codes

x	000	None
x	310	Protection tube Ø 6 mm stepped down to Ø 3.8 mm (insertion length EL max. 700 mm)
x	810	Welding socket (only for process connection 380)

^a Product is not intended for export to the USA.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)									
Order code		-		-		-		-		-		/		, ... ^a					
Order example	902940/30	-	8	-	386	-	1013	-	2	-	475	-	6	-	50	-	102	/	000

^a List extra codes in sequence, separated by commas.

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Scope of delivery

1 device in the ordered version
1 combination tool (required for operation on the device and after installation to turn the display case $\pm 160^\circ$ to the left or right)
1 operating manual B 902940.0

Accessories for process connection

Article	Part no.
Pipe screw connection G 1/4 (stainless steel 316Ti) for protection tube connections	00080811
Pipe screw connection G 1/2 (stainless steel 316Ti) for protection tube connections	00305445

Accessories

Article	Part no.
Setup program on CD-ROM, multilingual	00550018
Transmitter cable (Y cable) (required for the configuration with the setup program)	00507861
PC interface with USB/TTL converter and adapter (USB connecting cable) (required for the configuration with the setup program)	00456352
Combination tool (required for operation on the device and after installation to turn the display case $\pm 160^\circ$ to the left or right)	00526614
Cable box, 4-pin (straight) M12 $\times$ 1 with PVC connecting cable length 2000 mm (can be used for assembly)	00404585
Cable box, 4-pin (angled) M12 $\times$ 1 with PVC connecting cable length 2000 mm (can be used for assembly)	00409334

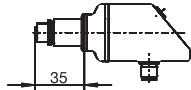
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Order details

(1) Basic type ^a		
902940/50	DELOS T Electronic temperature switch with display and analog output and M12 × 1 plug connection for RTD temperature probes Ambient temperature for the display case: -20 to +75 °C	
	(2) Version	
x	8	Standard with factory settings
x	9	Customer-specific configuration (specifications in plain text)
	(3) Operating temperature in °C	
x	408	-50 to +500 °C
	(4) Measuring input	
x	1013	1× Pt1000 in 4-wire circuit
	(5) Tolerance class according to DIN EN 60751	
x	0	None (not relevant)
	(6) Output	
x	470	1× PNP switching output
x	471	2× PNP switching output
x	475	1× PNP switching output and 1× analog output 4 to 20 mA, configurable
x	476	1× PNP switching output and 1× analog output 0 to 20 mA, configurable
x	477	1× PNP switching output and 1× analog output 0 to 10 V, configurable
	(7) Protection tube diameter D in mm	
x	0	None (not relevant)
	(8) Insertion length EL in mm	
x	000	None (not relevant)
	(9) Process connection PA	
x	000	None (not relevant)
	(10) Extra codes	
x	000	None

^a Product is not intended for export to the USA.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Order code										
Order example	902940/50	- 8	- 408	- 1013	- 0	- 475	- 0	- 000	- 000	/ 000

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Scope of delivery

1 device in the ordered version
1 combination tool (required for operation on the device and after installation to turn the display case $\pm 160^\circ$ to the left or right)
1 operating manual B 902940.0

Accessories

Article	Part no.
Setup program on CD-ROM, multilingual	00550018
Transmitter cable (Y cable) (required for the configuration with the setup program)	00507861
PC interface with USB/TTL converter and adapter (USB connecting cable) (required for the configuration with the setup program)	00456352
Combination tool (required for operation on the device and after installation to turn the display case $\pm 160^\circ$ to the left or right)	00526614
Cable box, 4-pin (straight) M12 $\times$ 1 with PVC connecting cable length 2000 mm (can be used for assembly)	00404585
Cable box, 4-pin (angled) M12 $\times$ 1 with PVC connecting cable length 2000 mm (can be used for assembly)	00409334
Machine connector M12 $\times$ 1, 4-pin according to IEC 60947-5-2	00404727
Wall holder for DELOS T with M12 $\times$ 1 plug connection	00555129
Push-in RTD temperature probe with Pt1000 temperature sensor and machine connector M12 $\times$ 1	
902150/99-386-1013-2-6-100-56-2500/315 Protection tube diameter 6 mm, insertion length 100 mm, connecting cable length 2500 mm	00551310
902150/99-386-1013-2-6-200-56-2500/315 Protection tube diameter 6 mm, insertion length 200 mm, connecting cable length 2500 mm	00551311
Note: for pipe screw connections and flanges refer to data sheet 909750	

Stock version

Order code	Part no.
902940/50-8-408-1013-0-475-0-000-000/000	00551004