

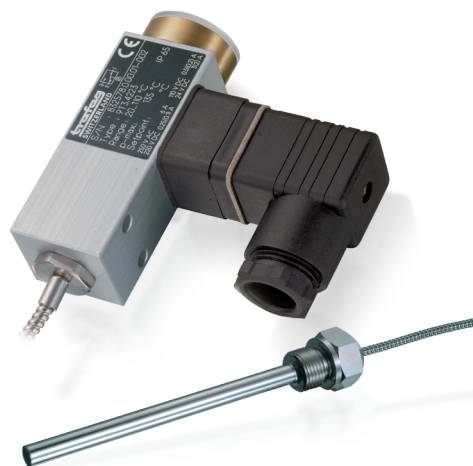
PICOTHERM

Swiss based Trafag is a leading international supplier of high quality sensors and monitoring instruments for measurement of pressure and temperature.



Applications

- Shipbuilding
- Engine manufacturing
- Railways
- Hydraulics
- HVAC



Features

- Compact design
- Rugged housing
- High repeatability
- Protection IP65
- Any mounting position possible

Technical Data

Designation of application	Compact thermostat for shipbuilding	Switching differential	Not adjustable
Measuring range	+5°C ... +95°C to +20°C ... +150°C	Repeatability	± 1 % FS typ.
Output signal	Floating change-over contact	Approval / conformity	DNV-GL EU RO Mutual Recognition Type Approval Certificate

12/2025

Data sheet H72113q

Subject to change

Ordering information/type code

			474 .	XX	XX	XXX	XX	XXXX	XXXX	XX	XX
Microswitch	Standard, switching differential not adjustable			03							
Range	Range [°C]	Sensor max. [°C]									
	+5 ... +95	100									
	+20 ... +110	115									
	+20 ... +150	165									
Sensor	Sensor diameter [mm]	Range									
	Ø7	20, 23									
	Ø9	20, 23									
	Ø12	20, 23									
	Ø7	31									
	Ø9	31									
	Ø12	31									
Fixing	Flange connection (for remote sensing version)										
	Cap nut (for direct mounting version)										
Protection tube	Mounting	Suitable for sensor		Protection tube diameter [mm]							
	For direct mounting on protection tube	122, 322		10							
	For direct mounting on protection tube	142, 342		15							
	For remote sensing version	122, 322		10							
	For remote sensing version	142, 342		15							
Protection tube length	Length G see data sheet www.trafag.com/H72163								XXXX		
Accessories	Female electrical plug EN 175301-803-A (DIN43650-A)/NBR, -40°C ... +90°C, for cable diameter 4 ... 9 mm, flammability standard UL94-V0										46
	Female electrical plug EN 175301-803-A (DIN43650-A)/NBR, -40°C ... +90°C, for cable diameter 4 ... 9.5 mm, flammability standard UL94-V2										58
	Capillary tube protection: Flexible metal tube, brass nickel-plated										90
	Fixing set										V3
	Cover with window										77
Capillary tube length	Capillary tube length up to 5000 mm (no specification required for direct mounting on protection tube) L = XXXX										
	Standard length: L = 3000 mm with flexible metal tube										

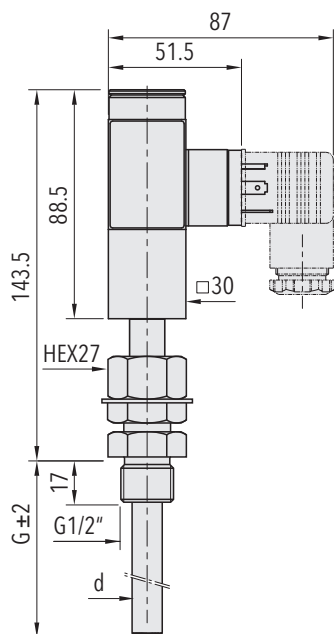
Standard products (extra short lead time)

Product No.	Type Code	Temperature range [°C]	Protection tube diameter [mm]	Protection tube length [mm]	Switching differential [°C]	Sensor max. [°C]
ISPT9515	474 0320 322 14 1416 0150 58 V3	+5 ... +95	10	150	4 (fixed)	100
ISPT9565	474 0320 342 14 1419 0065 58 V3	+5 ... +95	15	65	4 (fixed)	100
ISPT11015	474 0323 322 14 1416 0150 58 V3	+20 ... +110	10	150	4 (fixed)	115
ISPT11065	474 0323 342 14 1419 0065 58 V3	+20 ... +110	15	65	4 (fixed)	115
ISPT15015	474 0331 122 14 1416 0150 58 V3	+20 ... +150	10	150	12 (fixed)	165
ISPT15065	474 0331 142 14 1419 0065 58 V3	+20 ... +150	15	65	12 (fixed)	165
ISP9515	474 0320 322 00 8316 0150 58 90 V3	+5 ... +95	10	150	4 (fixed)	100
ISP9565	474 0320 342 00 8319 0065 58 90 V3	+5 ... +95	15	65	4 (fixed)	100
ISP11015	474 0323 322 00 8316 0150 58 90 V3	+20 ... +110	10	150	4 (fixed)	115
ISP11065	474 0323 342 00 8319 0065 58 90 V3	+20 ... +110	15	65	4 (fixed)	115
ISP15015	474 0331 122 00 8316 0150 58 90 V3	+20 ... +150	10	150	12 (fixed)	165
ISP15065	474 0331 142 00 8319 0065 58 90 V3	+20 ... +150	15	65	12 (fixed)	165

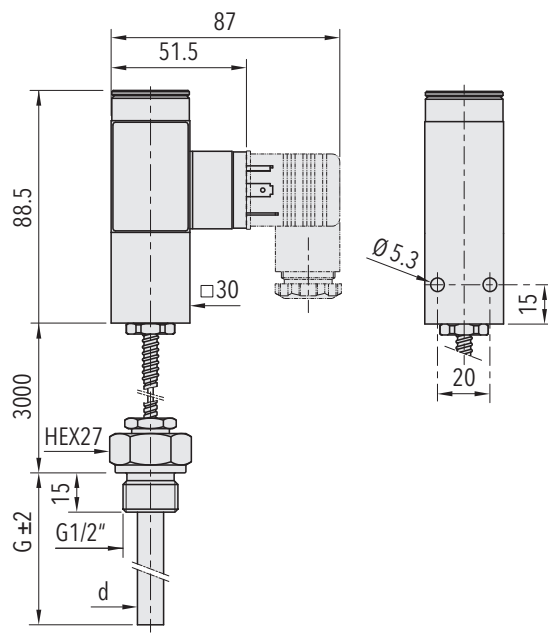
Specifications		
Accuracy	Repeatability	± 1 % FS typ.
	Stability typ.	± 1 % FS typ.
	Scale accuracy typ.	± 4 % FS typ.
	Switching differential	See table
	Switching point	Temperature compensated with bimetal switch lever
Environmental conditions	Ambient temperature	-30°C ... +70°C
	Storage temperature	-40°C ... +85°C
	Protection	IP65
	Humidity	Max. 95 % relative
	Vibration	5...25 Hz: ±1.6 mm 25...100 Hz: 4g
	Shock	50 g / 11 ms
Mechanical Data	Sensor housing	Copper (Cu)
	Filling	Liquid
	Protection tube	Brass nickel plated
	Housing	AlMgSi1 anodized
	Male electrical plug	Polyamide (PA)
	Installation	any position
	Weight	~ 260 g
Microswitch	Rating	See table
	Resistance of insulation	> 10 MΩ
	Dielectric strength	2 kV terminal ground
	Life time (mechanical)	10 Mio. cycles
Electrical connection	Cable gland	Cable-Ø: 6...13 mm
	Terminal screw	4 x 0.5...1.5 mm ²

Additional information		
Documents	Data sheet	www.trafag.com/H72113
	Instructions	www.trafag.com/H73113

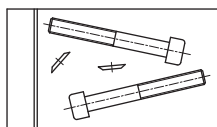
Dimensions



474.XXXX.XXX.14.14XX...

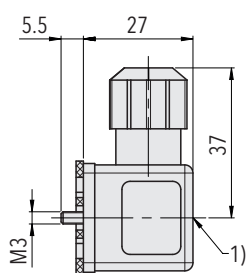


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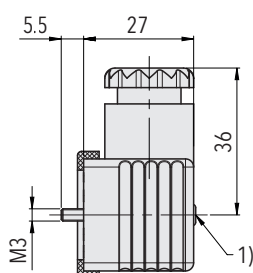
M5x40 ISO4762

474...V3



1) Tightening torque 50...60 Ncm

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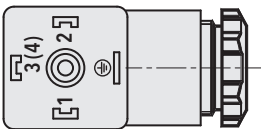
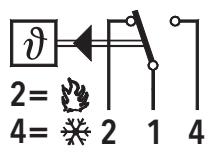
1) Tightening torque 50...60 Ncm

474.XX.XXXX.XX.XX.58

Switching differential typ.				
Measuring range	[°C]	+5 ... +95	+20 ... +110	+20 ... +150
Sensor max.	[°C]	100	115	165
Microswitch 03: Switching differential not adjustable	[°C]	4.0	4.0	max. 12

Electrical data switch			
		Rating Resistive Load (Inductive Load)	
Type	Features	AC	DC
03	Silver contacts	250 V, 3 (1) A	250 V, 0.1 (0.05) A 220 V, 0.25 (0.2) A 110 V, 0.5 (0.3) A 24 V, 2.0 (1.0) A

Electrical Connection



DIN 43650-A