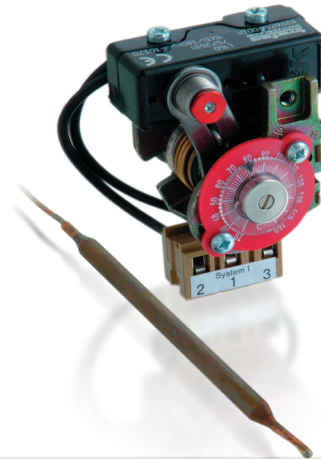


LABOR LIMISTAT

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



Applications

- Machine tools

Features

- Without housing
- Short response time
- Electrical connection on terminal screw

05/2020

Data sheet H72124n

Technical Data

Designation of application	Remote sensing thermostat with limiter, skeleton type	Switching differential	Not adjustable
Measuring range	-30°C ... +40°C to +70°C ... +350°C	Repeatability	± 0.5 % FS typ.
Output signal	Floating change-over contact	Approval / conformity	EN60730-1/ EN60730-2-9: Typ 2.B.H

Subject to change

Ordering information/type code

		L...R . XX	XX	XXX	XX	XXXXXXXXXX	XX	XX
Custom build code	For increasing temperatures, screw terminal	755 . 12						
Range	Range [°C]	Sensor max. [°C]						
	-30 ... +40	45	01	-10 ... +80	85		95	
	-10 ... +25	60	07	+5 ... +95	105		20	
	0 ... +35	70	09	+20 ... +110	115		23	
	+10 ... +45	85	11	+20 ... +150	165		31	
	+10 ... +80	100	13	+20 ... +230	250		24	
	+15 ... +30	60	17	+40 ... +300	330		53	
	-10 ... +35	70	94	+70 ... +350	380		54	
Sensor ¹⁾	See table "Ordering-no. for sensors"					XXX		
Fixing ²⁾	Nut M10 (for remote sensing version)							10
	Angle bracket (for remote sensing version)							17
	Bracket (for remote sensing version)							27
	Grubscrew locked, lateral (direct mounting version) ⁴⁾							12
	Cap nut (for direct mounting version) ⁴⁾							14
	Grubscrew locked with spacer (cooling element) (for direct mounting version)							18
Protection tube	See data sheet www.trafag.com/H72114 and www.trafag.com/H72163						XXXX.XXXX	
Accessories	Switchpoint locking							15
	Switchpoint fixed and sealed upon customer's request							88
	Switchpoint preset upon customer's request, no guarantee on switching accuracy							83
	Switchpoint adjustment please indicate when ordering: - Switchpoint [°C] - Increasing or decreasing							
	Condensator over Pin 1-2							12
	Condensator over Pin 1-3							13
	Condensators over Pin 1-2 / 1-3							23
	Railway version IEC 61373, category 2							28
	Capillary tube protection: Flexible metal tube, brass nickel plated							90
	Capillary tube protection: Flexible metal tube 1.4541/V2A							91
	Capillary tube protection: PVC tube							92
	Capillary tube length	Capillary tube length up to 5000 mm (no specification required for direct mounting on protection tube) L=XXXX ³⁾						

¹⁾ See data sheet www.trafag.com/H72114 and www.trafag.com/H72163

²⁾ See data sheet www.trafag.com/H72106

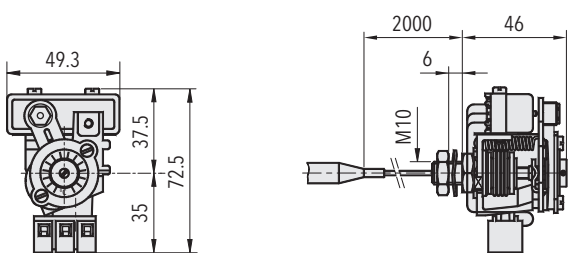
³⁾ Overlengths upon request

⁴⁾ Media max. 150°C in continuous operation

Ordering no. for sensors				
Range	Sensor-Ø	Sensor material		
		Stainless steel	Copper	Copper nickel plated
01, 07, 09, 11, 13, 17	4.7 mm		412	413
	7.0 mm	421	422	423
	9.0 mm		432	433
94, 95, 20, 23	4.7 mm	311	312	313
	7.0 mm	321	322	323
	9.0 mm	331	332	333
31	4.7 mm	111	112	113
	7.0 mm	121	122	123
	9.0 mm	131	132	133
24, 53, 54	4.7 mm	011	012	013
	7.0 mm	021	022	023
	9.0 mm	031	032	033

Standard products (extra short lead time)				
Product No.	Type Code	Sensor material	Temperature range [°C]	Sensor max. [°C]
L95R	755 1220 322 10	Copper	+5 ... +95	105
L150R	755 1231 122 10	Copper	+20 ... +150	165
L230SR	755 1224 021 10	1.4435 (AISI316L)	+20 ... +230	250
L350SR	755 1254 021 10	1.4435 (AISI316L)	+70 ... +350	380

Dimensions



755.12XX.XXX.XX...

Specifications		
Accuracy	Repeatability	$\pm 0.5 \% \text{ FS typ.}$
	Scale accuracy typ.	$\pm 2 \% \text{ FS typ.}$
	Switching differential	See table below
	Switching point	Temperature compensated with bimetal switch lever
Environmental conditions	Ambient temperature	Range $\leq +45^{\circ}\text{C}$: $-30^{\circ}\text{C} \dots +50^{\circ}\text{C}$ Range $+45^{\circ}\text{C} \dots +250^{\circ}\text{C}$: $-30^{\circ}\text{C} \dots +70^{\circ}\text{C}$ Range $> +250^{\circ}\text{C}$: $-10^{\circ}\text{C} \dots +70^{\circ}\text{C}$ (Important: Temperature at sensor may not exceed maximum sensortemperature)
	Storage temperature	Range $\leq +45^{\circ}\text{C}$: $-30^{\circ}\text{C} \dots +50^{\circ}\text{C}$ Range $> +45^{\circ}\text{C}$: $-30^{\circ}\text{C} \dots +85^{\circ}\text{C}$
	Protection	IP00
	Humidity	Max. 95 % relative
Mechanical Data	Filling	Liquid
	Housing	See ordering information
	Installation	any position
	Weight	$\sim 250 \text{ g}$
Microswitch	Rating	See table below
	Resistance of insulation	$> 2 \text{ M}\Omega$
	Dielectric strength	2 kV terminal ground
	Life time (mechanical)	0.3 Mio. cycles
Electrical connection	Terminal screw	$3 \times 1 \dots 2.5 \text{ mm}^2$

Additional information

Documents	Data sheet	www.trafag.com/H72124
	Instructions	www.trafag.com/H70211
	Flyer	www.trafag.com/H70968

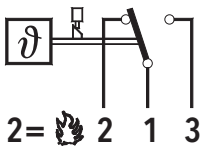
Switching differential typ.

Measuring range	[°C]	-30 ... +40 -10 ... +25 0 ... +35 +15 ... +30 +10 ... +45 +10 ... +80	-10 ... +35 -10 ... +80 +5 ... +95 +20 ... +110	+20 ... +150	+20 ... +230	+40 ... +300 +70 ... +350
Microswitch 12: Switching differential not adjustable	[°C]	2.0	6.0	7.5	9.0	12.0

Electrical data switch

Type	Features	Rating	
		Resistive Load (Inductive Load)	
		AC	DC
12	Average switching differential, high vibration resistance	125 V, 15 (1.5) A 250 V, 15 (1.25) A 500 V, 10 (0.75) A	250 V, 0.3 (0.2) A 125 V, 0.75 (0.4) A 30 V, 15 (1.5) A 14 V, 15 (1.5) A

Electrical Connection



755.12