LABOR LIMISTAT

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



Applications

- Machine tools

Features

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

09/2014
Data sheet H72124h
Subject to change

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

Trafag Sensors & Controls
Switzerland

Industriestrasse 11
8608 Bubikon

Tel. +41 44 922 32 32
Fax +41 44 922 32 33

www.trafag.com
trafag@trafag.com

trafag
sensors controls

Ordering information/type code

	L...R .	XX	XX	XXX	XX	XXXXXXXXX	XX	XX
Custom build code	For increasing temperatures, screw terminal	755 .	12					

Range

Range [°C]	Sensor max. [°C]		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]

Range	Sensor diameter [mm]	Sensor material		Range	Sensor diameter [mm]	Sensor material	
01, 07, 09, 11, 13, 17	Ø7	Stainless steel	**421**	24, 53, 54	Ø4.7	Copper	**112**
94, 95, 20, 23, 31	Ø4.7	Stainless steel	**311**	24, 53, 54	Ø7	Copper	**122**
94, 95, 20, 23, 31	Ø7	Stainless steel	**321**	24, 53, 54	Ø9	Copper	**132**
94, 95, 20, 23, 31	Ø9	Stainless steel	**331**	01, 07, 09, 11, 13, 17	Ø4.7	Copper nickel plated	**413**
24, 53, 54	Ø4.7	Stainless steel	**111**	01, 07, 09, 11, 13, 17	Ø7	Copper nickel plated	**423**
24, 53, 54	Ø7	Stainless steel	**121**	01, 07, 09, 11, 13, 17	Ø9	Copper nickel plated	**433**
24, 53, 54	Ø9	Stainless steel	**131**	94, 95, 20, 23, 31	Ø4.7	Copper nickel plated	**313**
01, 07, 09, 11, 13, 17	Ø4.7	Copper	**412**	94, 95, 20, 23, 31	Ø7	Copper nickel plated	**323**
01, 07, 09, 11, 13, 17	Ø7	Copper	**422**	94, 95, 20, 23, 31	Ø9	Copper nickel plated	**333**
01, 07, 09, 11, 13, 17	Ø9	Copper	**432**	24, 53, 54	Ø4.7	Copper nickel plated	**113**
94, 95, 20, 23, 31	Ø4.7	Copper	**312**	24, 53, 54	Ø7	Copper nickel plated	**123**
94, 95, 20, 23, 31	Ø7	Copper	**322**	24, 53, 54	Ø9	Copper nickel plated	**133**
94, 95, 20, 23, 31	Ø9	Copper	**332**				

Fixing [2]

Nut M10 (for remote sensing version)	**10**
Console (for remote sensing version)	**17**
Bracket (for remote sensing version)	**27**
Grubscrew locked, lateral (direct mounting version)	**12**
Captive nut (for direct mounting version)	**14**
Grubscrew locked with thermal distance piece (for direct mounting version)	**18**

Protection tube

See data sheet H72114/H72163	**XXXX.XXXX**

Accessories

Set blocking	**15**	Railway version (UIC 616)	**28**
Condensator over Pin 1-2	**12**	Capillary tube protection: Flexible metal tube, brass nickel plated	**90**
Condensator over Pin 1-3	**13**	Capillary tube protection: Flexible metal tube 1.4541/V2A	**91**
Condensators over Pin 1-2 / 1-3	**23**	Capillary tube protection: PVC tube	**92**

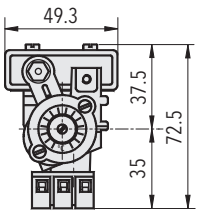
Capillary tube length

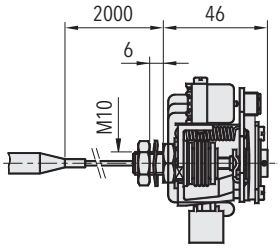
Capillary tube length up to 5000 mm (no specification required for direct mounting on protection tube) **L=XXXX** [3]

[1] See data sheet H72114/H72163
[2] See data sheet H72106
[3] Overlengths upon request

Standard products (extra short lead time)				
Product No.	**Type Code**	**Sensor material**	**Temperature range [°C]**	**Media temperature [°C]**
L95R	755 1220 322 10	Cu	+5 ... +95	max. 105
L150R	755 1231 322 10	Cu	+20 ... +150	max. 165
L230SR	755 1224 121 10	1.4435/316L	+20 ... +230	max. 250
L350SR	755 1254 121 10	1.4435/316L	+70 ... +350	max. 380

Dimensions





755.12XX.XXX.XX...

Specifications

Accuracy	Repeatability	± 0.5 % FS typ.
	Scale accuracy typ.	± 2 % FS typ.
	Switching differential	See table
	Switching point	Temperature compensated with bimetal switch lever
Environmental Conditions	Ambient temperature	Range ≤ +45°C: -30...+50°C Range +45...+250°C: -30...+70°C Range > +250°C: -10...+70°C (Important: Temperature at sensor may not exceed maximum sensortemperature)
	Storage temperature	Range ≤ +45°C: -30...+50°C Range > +45°C: -30...+85°C
	Protection	IP00
	Humidity	Max. 95 % relative
Mechanical Data	Filling	Liquid
	Housing	See ordering information
	Installation	Any position
	Weight	~ 250 g
Microswitch	Rating	See table
	Resistance of insulation	> 2 MΩ
	Dielectric strength	2 kV terminal ground
	Life time (mechanical)	0.3 Mio. cycles
Electrical connection	Terminal screw	3 x 1...2.5 mm²

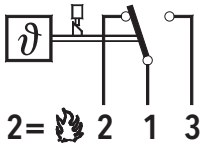
Additional information

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

Switching differential typ.						
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 (fixed value, not adjustable)	**[°C]**	2.0	6.0	7.5	9.0	12.0

Electrical data switch			
		Rating Resistive Load (Inductive Load)	
Type	**Features**	**AC**	**DC**
12	High vibration resistance, medium switching differential	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