DAYTECH DT-FS960 Series Datasheet

Thermal Dispersion Flow Switch

DAYTECH

Features & Benefits

- Highly reliable and precise thermal dispersion flow switch;
- Full stainless steel metal housing;
- No moving parts, no need for maintenance;
- Easy installation and setup;
- Suitable for various different pipe diameters;
- Switch output has an adjustable control point setting on the face of the sensor, which can be adjusted in process;
- 6 LEDs displays flow rate (velocity) and switch status in real time.
- ½"BSP (G1/2) or ¼"BSP (G1/4) process connections, or custom as specified.
- Different insertion lengths available include 15mm, 18mm, 21mm or 68mm;
- Electrical connection via M12, 5 pin connector.



Applications



- Liquid flow detection and control for oil or water;
- Machine lubrication oil or coolant flow detection;
- Hydraulic flow detection;
- Pipe empty detection;
- High flow, low flow or no flow interlocking / alarming / cut off;
- Pump or valve flow detection;
- Pump or valve protection;
- Water Treatment, Irrigation, Food & Beverage, HVAC, Petrochemical, Power, Manufacturing, OEM Machine Builders, Mining.

Description

DAYTECH's DT-CD940 thermal dispersion flow switch is a highly reliable device, mainly used for water and oil flow detection and control applications. The **DT-FS960** is switched on or off in response to flow or no-flow of liquid in a pipe. The principle of operation is based on heat transfer, using a thermal dispersion transducer, which is a precise method of measuring liquid velocity.

With low pressure loss, compact size, and easy installation, the thermal dispersion flow switch is offered with a variety of output types and full stainless steel materials of construction. No moving parts make the DT-FS960 a long lasting and robust flow switch, without maintenance requirements. The switching point can be adjusted as required, whilst in operation.

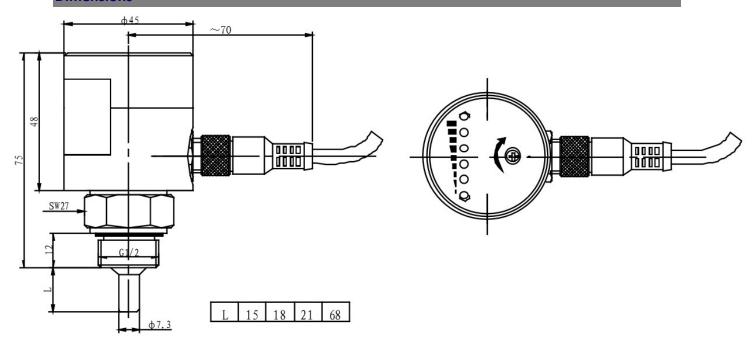
Applications include monitoring velocity of flow, high flow, low flow, no flow for pump protection or process control.

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Dimensions



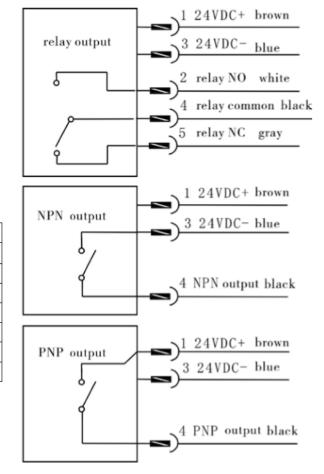
Pinout and Electrical Connections

M12*1 aviation pin output



Pin	Color		
1	brown		
2	white		
3	blue		
4	black		
5	gray		

Definition	Cable color	Plug pin	
V+	Brown	1	
V-	Blue	3	
Relay common	Black	4	
Relay NO	White	2	
Relay NC	Gray	5	
Transistor NPN	Black	4	
Transistor PNP	Black	4	



Daytech Pty Ltd

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Technical Specifications

Parameter		Notes		
Control Range	$1{\sim}150$ cm/s			
Working Voltage				
Power Consumption				
Output Signal	Relay SPDT,PNI	Specify on order		
Operating Pressure				
Probe Insertion Lengths	15mm	Specify on order		
Construction Material	Probe mater Housing mate			
Output Option	Relay SPDT	PNP	NPN	
Switch Voltage	≤250VAC/30VDC	24VDC ± 20%	24VDC ± 20%	
Switch Current	≤3A	≤400mA	≤400mA	
Initial Time	Typical			
Response Time	Typical			
Electrical Connection	M1			
Environmental Temp				
Media / Process Temp				
Storage Temp				
IP Rating				

Selection Guide

Specify the following options on your order:

- 1. Output signal Relay / PNP / NPN
- 2. Probe insertion length 15mm / 18mm / 21mm / 68mm

Please contact our sales and engineering team if you require application assistance.