

Float Switches - continued

Level Regulators - LR03, LR06, LR07 - continued

PVC, PUR and EPDM cable - continued

Contact rating	250V, 15A
Max. temperature	70°C
Specific Gravity	0.90 to 1.3
Max. submerged depth	20 metres
Actuation	Internal steel roller ball and microswitch arrangement
Position of weight	Adjustable, 280mm minimum from end of float

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Cable Length	Cable Type	Mfrs. List No.	Order Code	Price Each			
				1+	5+	10+	
5m	PVC	LR03-L05M	706-4263	1,131.00	955.00	877.00	838.00
10m	PVC	LR03-L10M	706-4275	1,366.00	1,152.00	1,060.00	1,012.00
5m	PUR	LR06 L05M	388-9841	1,947.00	1,644.00	1,513.00	1,443.00
10m	PUR	LR06 L10M	388-9853	2,884.00	2,434.00	2,241.00	2,011.00
20m	PUR	LR06 L20M	388-9865	4,404.00	3,789.00	3,486.00	3,386.00
5m	EPDM	LR07 L05M	388-9877	2,178.00	1,838.00	1,693.00	1,615.00
10m	EPDM	LR07 L10M	388-9889	3,285.00	2,826.00	2,601.00	2,526.00
20m	EPDM	LR07 L20M	388-9890	5,825.00	5,011.00	4,611.00	4,478.00
Weight LR03/LR06		LR03-W	706-4287	254.00	215.00	198.00	176.00
Weight LR07		LR07-W	390-6541	254.00	215.00	198.00	188.00

Liquid Limit Switches

Liquid Level Switches - LIQUIPHANT FTL260

Endress+Hauser 



- Stainless steel forks and housing IP65
- Immune to external vibration and build-up
- 1" BSP parallel thread connections (stainless steel)
- Maintenance-free
- Mounting in any orientation
- LED indication of operating mode and switching mode

Vibration limit switch for liquid level detection in storage tanks, tanks with agitators and piping. Can be used as an alternative to float switches and in applications where build-up, turbulence, liquid flow and gas bubbles are present.

Process media temp.	-40°C to +150°C
Power supply requirement	AC version; 19 to 253V 50/60Hz DC versions; 10 to 55V, ripple 1.7V max., 0-400Hz
Connection	4 pole plug connection to DIN 43650-A ISO 4400
Pressure in tank	-1 to 40 Bar
Density of material	0.7 g/cm ³ (min.)
Dimensions	L = 242 (overall), 128 (forks and process connection), Body Ø = 40, Forks W = 20, Gap = 9

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Voltage	Mfrs. List No.	Order Code	Price Each		
			1+	5+	+
19 to 253V ac (2 wire)	FTL260-0010	712-5343	11,140.00	11,137.00	--
10 to 55V dc (3 wire)	FTL260-0020	712-5355	11,140.00	11,137.00	--

Mass Airflow Sensors

Microbridge

0 - 0.2 l/min to 0 - 1 l/min

Honeywell



- Sensors give signal-conditioned output proportional to the air/gas flow through the device
- Wide range of applications

Connections
1 Output voltage
2 +ve supply voltage
3 Ground

H = 31.5 (excl pins), W = 20.5 (excl ports), D = 15.5 Port O/D = 5.08, Pin spacing = 2.54, Fixing centres = 12.7

Microbridge mass airflow sensors give a signal conditioned output (1V to 5V dc for a 10V dc supply) proportional to the air/gas flow through the device. They are sensitive to flows up to 1 litre/min (0 - 1000 standards cc's/min). The transducers are uni-directional, the air flow going from P1 to P2.

Applications: Air conditioning (variable air volume), medical ventilation/anaesthesia control, gas analysers, gas metering, fume cabinet and process control.

Excitation voltage	10V dc±10mV dc
Output voltage	5V at full span
Null voltage	1.00V dc±50mV dc
Repeatability and hysteresis	±0.5% of reading
Response time	3ms (max.)
Operating temperature	-25°C to +85°C
Overpressure	25 psi

	178-887	178-888*	178-889
Operating range	0 to 200 sccm (0 to 0.2 litres/min)	0 to 2" H2O (0 to 0.072 psid)	0 to 1000 sccm (0 to 1 litre/min)
Mfrs. List No.	AWM3100V	AWM3200V	AWM3300V

* 178-888 is configured as a differential pressure transducer

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Flow Range	Order Code	Price Each			
		1+	5+	10+	25+
0 to 200 sccm	178-887	6,698.00	6,363.00	6,029.00	6,013.00
0 to 2" H2O	178-888	6,852.00	6,916.00	6,552.00	6,535.00
0 to 1000 sccm	178-889	6,698.00	6,363.00	6,029.00	6,013.00

Liquid Flow Sensors and Flow Switches

Liquid and Air Flow Switches



- Operates from a small head of liquid
- Maximum pressure 10 Bar @ 20°C
- Low pressure drop
- Vertical mount ±15°
- Suitable for various pipe sizes
- Triac switching (AC)
- Reed Switch switching (DC)
- Suitable for liquid and air

Typical Sensing Applications

- Power shower
- Central heating systems
- Mains water control
- Flow sensing
- Leak detection
- Cooling systems

	730-798	730-804	721-9982	721-9994	372-0986
Switching voltage	250Vac	300Vdc,	250Vac	300Vdc,	100Vdc, 250Vdc
Switching current	3A	0.5A	3A	0.5A	1A
Switching power		10VA		10VA	15VA
Material		Noryl	Brass	Brass	Copper
Temperature Range	-30°C to +100°C	-30°C to +85°C	-30°C to +100°C	-30°C to +100°C	-30°C to +80°C
Flow Rate	1litre/min	1litre/min	1litre/min	1litre/min	0.5litre/min
Fitting	3/4"BSP Male/Female	3/4"BSP Male/Female	22mm compression	22mm compression	15mm pipe

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Connection Type	Mfrs. List No.	Order Code	Price Each		
			1+	10+	25+
3/4" BSP	FS-01	100-6766	1,571.00	1,388.00	1,285.00
3/4" BSP Male/Female	FS-02	100-6767	1,145.00	1,012.00	937.00
22mm compression	FS-05..	721-9982†	3,097.00	2,991.00	2,896.00
22mm compression	FS-06..	721-9994†	2,787.00	2,486.00	2,407.00
15mm pipe	FS-10..	372-0986†	628.00	566.00	539.00

Liquid Flow Switches

1.5l/min and 3.5l/min

crydom



- Flow switches in Acetal resin housing, WRC approved for use in potable water systems
- Suitable for use with hot or cold water and alcohol or dilute (including organic) acids up to 5% concentration
- Flow switches can be mounted vertically or horizontally, with the cap upwards

15mm types: L=107, W=56 (standard type), 70 (triac type), Dia.=15, Cable L=250
22mm types: L=114, W=58 (standard type), 72 (triac type), Dia.=22, Cable L=250

Available 15mm and 22mm diameter for 1.5 litre/min and 3.5 litre/min flows respectively. Triac protected versions are available for switching loads directly, as in powered water systems with relatively high pump turn-on surge currents.

Greater sensitivity is achieved with vertical installation.

Switch point	1.2 to 1.5 litres/min (15mm types), 3.0 to 3.5 litres/min (22mm types)
Switch off flow (max.)	0.5 litres/min. (15mm types), 1.0 litres/min. (22mm types)
Operating temperature	85°C (max.)
Switching voltage	240V rms/dc
Max. full cycle on state surge	1.0A @ 50Hz (standard types), 10A @ 50Hz (triac types)
Max. full cycle continuous	1.0A @ 50Hz (standard types), 1.5A @ 50Hz (triac types)
Max. switching power	15VA (standard types), 240VA (triac types)

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