

**NEW**



## Fan & Filter Fan Air-flow Monitor LC 013 / LCF 013

- *Reliable mechanical switch contact*
- *Small size*
- *Easily installs via clip or clamp*
- *Versatile fields of application*

The LC 013/LCF 013 air-flow monitor provides a simple but reliable alternative to indicate positive or negative air flow of fans. When properly installed and connected in series with an optical (i.e. LED) or audible signaling device, a bi-directional switch will activate an electrical contact if the air flow of the fan falls below 8.2 ft/s, thus either turning the signaling device on or off.



Photo enlarged

### Technical Data LC 013 / LCF 013

Contact type:	Reed / magnet contact
NC (normally closed)	Contact open with air flow
NO (normally open)	Contact closed with air flow
Switching threshold of air flow speed:	> 8.2 ft/s (2.5 m/s)
Hysteresis:	3.3 ft/s (1 m/s) - fixed
Contact resistance incl. wire:	370m
Service life:	> 100,000 cycles
Max. switching capacity:	10W (resistive load)
Max. switching voltage:	NC: DC 240 V / NO: DC 60 V
Max. switching current:	NC: DC 500mA / NO: DC 170mA
Connection:	2 x single strand AWG 26, length 500 mm, tip of stranded wire stripped/tinned (5 mm)
Mounting:	Attachment clamp and/or clip, or integrated in protective grill (see below)
Housing:	Plastic, UL94H-B, black
Dimensions:	1.3 x 0.7 x 0.3" (34 x 17.5 x 7.5 mm)
Mounting position:	Air-flow monitor opening perpendicular to air flow
Operating/storage temperature:	-4 to 122°F (-20 to 50°C) / -4 to 176°F (-20 to 80°C)
Protection type:	IP 20
Agency approvals:	UL and VDE

**Application:** The LC 013 air-flow monitor can be used in combination with optical or audible signaling devices (such as LED's or alarms), or remote monitoring devices. It should be connected:

- A) in series directly with the signaling device itself, if the power of the connected device does not exceed the electrical ratings of the LC 013 as listed, or
- B) to the pilot switch side of a relay (i.e. our SM 010), if the signaling device to be switched exceeds the electrical ratings of the LC 013 and needs to be switched via relay. In this case, a properly sized relay should be specified by the customer for the specific application/device.

Please refer to the table shown below to ensure the correct contact type (NC-normally closed or NO-normally open) suitable for the application.

**Installation notes:**

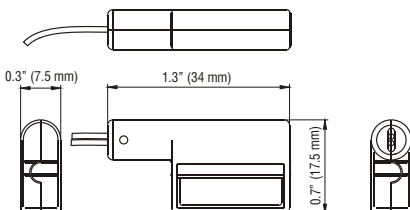
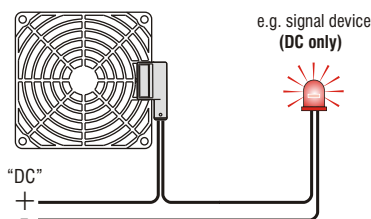
To avoid possible interference problems, a suitable distance from the following must be guaranteed, preferably through prior testing:

- magnets (permanent magnets) and ferrous metals (e.g. sheet metal)
- electromagnetic fields and inductive loads (e.g. caused by transformers, motors, etc.)

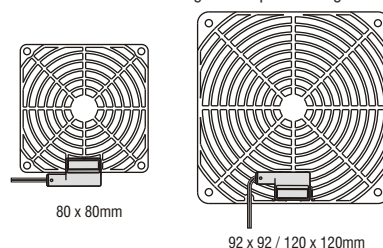
The air-flow monitor must be positioned directly in the air flow in a dust-free and contamination-free environment. Avoid installing in areas where air pockets or turbulence can be expected.

	Part No.	Protective Grill	Dimensions	Weight (approx.)	Flap Position		Contact		Description	Recommended use
					8.2 ft/s	>8.2 ft/s	8.2 ft/s	>8.2 ft/s		
LC 013	01300.0-00	no	1.3 x 0.7 x 0.3"	0.2 oz.	↓	↙	—	—	<b>NC - normally closed</b> Contact opens when air flow > 8.2 ft/s	Use to turn an alarm or signaling device ON to <b>indicate loss of air flow</b> (> 8.2 ft/s)
LCF 013	01301.0-00	✓	3.15 x 3.15 x 0.4"	0.7 oz.	↓	↙	—	—		
LCF 013	01302.0-00	✓	3.6 x 3.6 x 0.4"	0.7 oz.	↓	↙	—	—		
LCF 013	01303.0-00	✓	4.7 x 4.7 x 0.4"	1.1 oz.	Closed	Open	—	—		
LC 013	01300.1-00	no	1.3 x 0.7 x 0.3"	0.2 oz.	↓	↘	—	—	<b>NO - normally open</b> Contact closes when air flow > 8.2 ft/s	Use to turn a signaling device ON to <b>indicate sufficient air flow</b> (> 8.2 ft/s)
LCF 013	01301.1-00	✓	3.15 x 3.15 x 0.4"	0.7 oz.	↓	↘	—	—		
LCF 013	01302.1-00	✓	3.6 x 3.6 x 0.4"	0.7 oz.	↓	↘	—	—		
LCF 013	01303.1-00	✓	4.7 x 4.7 x 0.4"	1.1 oz.	Closed	Open	—	—		

Wiring example



Air-flow monitor integrated in protective grill



Specifications are subject to change without notice. Suitability of this product for its intended use and any associated risks must be determined by the end customer/buyer in its final application.