

NEW



Photo enlarged

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.



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: AC/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, UL 94HB, 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.

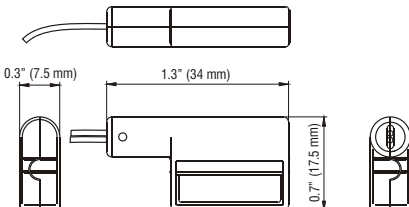
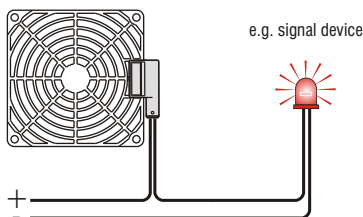
Installation notes:

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.)

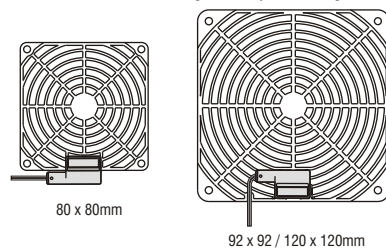
The air-flow monitor must be positioned directly in the air flow in a dust-free and contamination-free environment. Avoid installing in areas where air pockets or turbulence can be expected.

	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.	↓	↙	—	—	NC - normally closed Contact opens when air flow > 8.2 ft/s	Use to turn an alarm or signaling device ON to indicate loss of air flow (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.	↓	↘	—	—	NO - normally open Contact closes when air flow > 8.2 ft/s	Use to turn a signaling device ON to indicate sufficient air flow (> 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



LC013-03-07/US

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.

