

DS85 Series Differential Pressure Sensor



- **General remarks:** The DS85 series of differential pressure sensors are suitable for measuring pressure difference in air or any other non-aggressive gas. Two pressure tappings feed either side of a silicon membrane which deflects to convert the pressure difference into a 0-10V DC signal. The output is linear and proportional to the pressure difference with respect to the range of the sensor. For example, a difference of 250Pa measured on a DS85 with a range of 0-500 Pa will give an output of 5V DC.

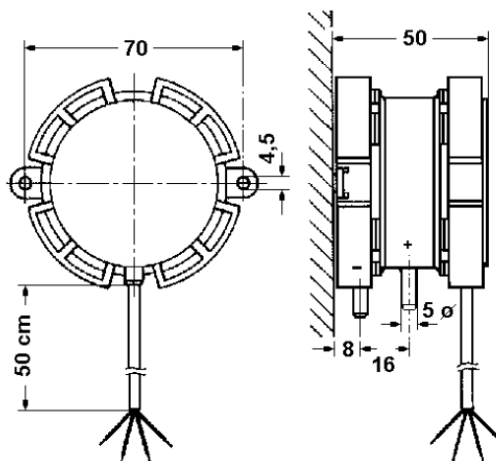
The DS85 can be connected directly to ebm-papst EC centrifugal fans with integrated electronics to provide a constant pressure system. When used with a special inlet ring incorporating its own pressure tapping a constant air volume system can also be created.

Nominal data	Range	Supply voltage*	Current	Output	Min. amb. temp.	Max. amb. temp.	Protection rating	Weight
Type	Pa	V	mA	V DC	°C	°C		kg
DS85-50	0-50	24	12	0-10	0	50	IP65	0.09
DS85-200	0-200	24	12	0-10	0	50	IP65	0.09
DS85-500	0-500	24	12	0-10	0	50	IP65	0.09
DS85-1000	0-1000	24	12	0-10	0	50	IP65	0.09

Subject to alterations *supply voltage range is 15 to 30V DC or 24V AC +/- 15%

The unit must be mounted vertically. Air connection by plastic hose, internal diameter 4mm.

Dimensions



Wiring diagram

