



SMARTSENSE[®] SSFM-100-AIRFLOW INTRINSICALLY SAFE AIRFLOW SENSOR

- Remote sensing head for continuously monitoring airflow.
- Approved as Intrinsically Safe for underground mines and other hazardous locations.
- Airflow speed ranges from 0.4 to 30m/s.
- Based on Vortex Principles, high accuracy and excellent repeatability.
- Rapid response of change of airflow. Low power consumption.

FEATURES

The SSFM-100-AIRFLOW Intrinsically Safe Airflow Sensor is one of the state-of-art equipment from Becker Mining Systems smartsense® Environmental Monitoring System. It is the remote sensing head for continuously monitoring airflow.

The Becker Mining Systems SSFM-100-AIRFLOW is constructed with Solid-state airflow sensor, measuring airflow using the VORTEX method. Vortex method is a proven way to measure the airflow very accurately.

Vortex method is also independent of small particles present in the air stream - like water triplets. And the lifespan of the airflow detector can be in excess of ten years.

The SSFM-100-AIRFLOW is designed to comply with Intrinsically Safe regulations. It can be installed in coalmines and other hazardous locations.

TECHNICAL DATA

PERFORMANCE SPECIFICATIONS	
Range normal	0 to 15m/s
Other ranges	up to 40m/s
Certifications	SABS M/03 - 166X CML 18ATEX2036
Approval for	Ex ia Group I
Approval Rating	Supply Input 24V and 2Amp

MECHANICAL DATA	
Dimensions (L x W x H)	250mm x 140mm x 75mm
Weight	1.6 kg
Housing	Stainless steel powder coated blue

ELECTRICAL DATA	
Supply Voltage	7 to 24V DC
Current Consumption	5mA + loop current (4-20mA)

Technical data are limit values.

If the product is integrated into systems or operated in combination with other devices, its permissible operating values can deviate from these limit values. Subject to technical modifications without prior notice.

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