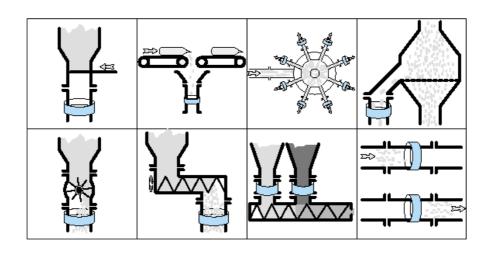


FlowSWITCH 600E

Flow Indicator for Solids





Application and Function

The indicator FlowSWITCH 600E helps control the mass flow in solid material handling applications such as pneumatic transport lines, feeders or gravity chutes in a wide range of mass flow from g/h to t/h. Flow problems with transports or the delivery of powders, dust, pellets, or granulates can be detected early with this device. This helps prevent serious difficulties that can occur due to clogged piping, material loss, or other technical problems with the system.

The meter detects moving electrical charges that are produced, for example, through friction with other objects such as the pipe wall and then naturally adhere to the solids surface. The multiple-use measurement principle on which FlowSWITCH 600E is based is the physical effect of the electric charge of solids particles. This occurs naturally as with, for example, friction or collision with solids. With a ring sensor, the measurements are taken integrally and without contact over the pipe cross section. The electrically charged particles produce (induce) a charge signal against the grounded conveyor duct. On the basis of statistical fluctuations in the particle flow, a current noise is produced which depends on the solids concentration but also on the solids velocity. Stationary particles such as sediments do not contribute to the results.

A multitude of sensor mechanics of the ESR ... /m/... series makes process coupling very easy and allows cost effective solutions for almost any monitoring application - also in existing conveying systems. The advantage of this modular concept also appear in case of refit or exchange.

Main Benefits

- Contactless
- Maintenance free
- Integral Measuring
- Adjustable sensitivity
- Adjustable switch
- Adjustable damping
- Indication with LED
- Condition indication with LED
- Potential free contact
- Compact form
- Easy Installation
- Multiple process couplings



Scope of use

Materials: all dust, powders, granules, panels, threads also sticking or abrasive materials	Range of detection: from milligram/Batch to many t/h
Industries: animal feed industry	Processes: aerosol technology cash conditioning
building materials industry	blending
production of ceramics chemical industry	lights (primary, secondary) fly ash removal
detergent industry	distributing
food industry glass production	dust removal extrusion
metal production	flue gas treatment
pharmaceuticals pigment production	granulating grinding
power plants	loading
production of rubber goods recycling industry	packaging production
synthetic materials	separations sifting
production of textiles	spinning sorting

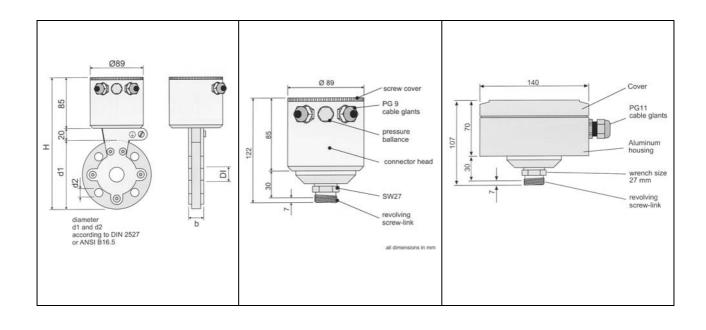
Types and dimensions

The following variants are available:

• FlowSWITCH 600E-K01: Standard-Compact device

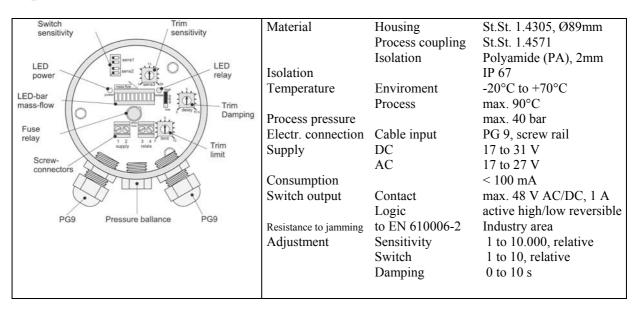
• FlowSWITCH 600E-V01: for big pipe diameters

• FlowSWITCH 600E-S02: for very low material flow

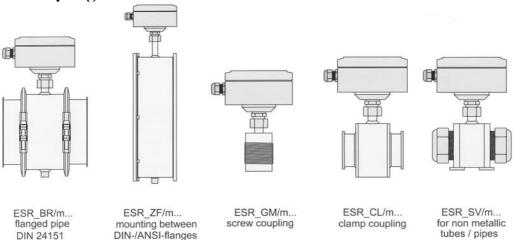


Operation

Technical Data



Process couplings





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