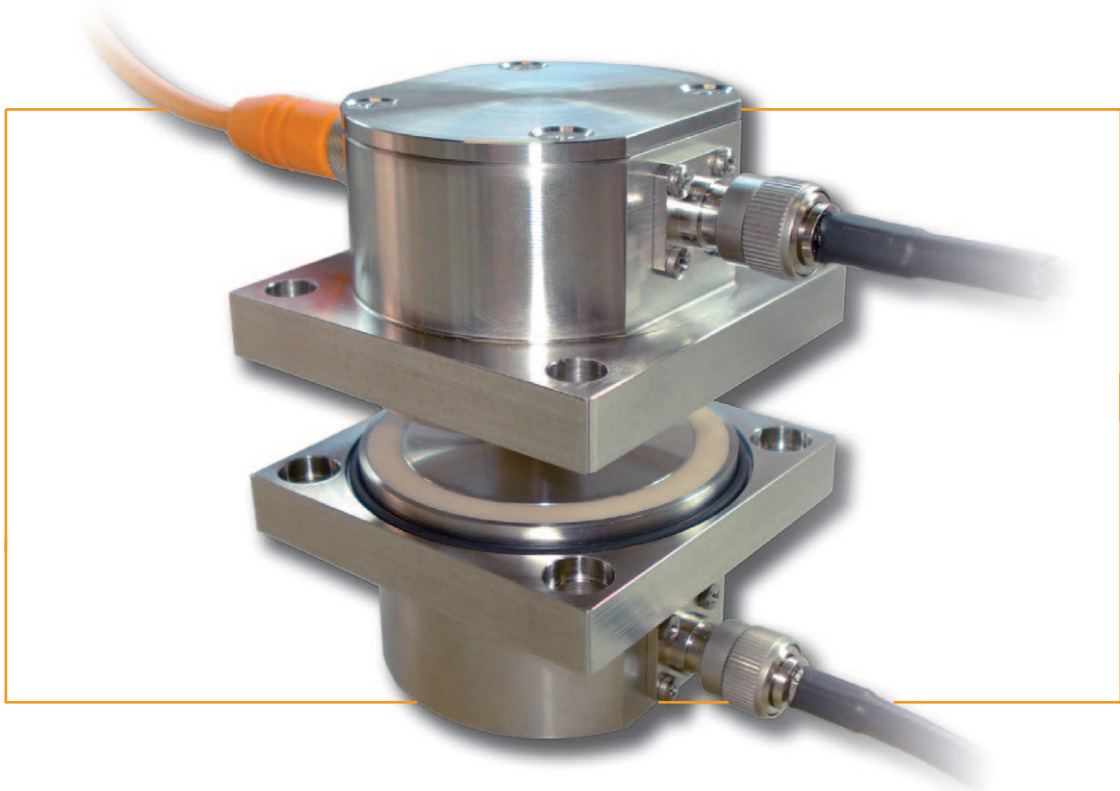


A complete Triangle flow measurement system consists of:

- FSA 150 Sensor including a transmitter and receiver electrode.
- FBS 300 indicating transmitter/totalizer.
- A coax cable between the two electrodes including connectors.
- A shielded 3-wire cable including a 3-pole Lumberg M12 connector.

TRIANGLE FSA 150 - WITH FTC TECHNOLOGY



Features

- New FTC technology.
- The ability to detect weak signals coming from low dielectric products.
- Sensor signal output corresponds to the flow of bulk solids.
- Rigid stainless steel sensor includes ceramic isolator for abrasive applications.
- The FSA 150 is connected with the FBS 300 by a 3-pole Lumberg M12 connector.
- Easy maintenance, no moving parts.
- Easy to install using BNC-connectors.
- Can be used for “free fall” and pneumatic transport applications.

Signal output

- The signal output is time controlled and fully compatible with the FBS 300 Flow indicating transmitter / totalizer.

Applications

- The Triangle FSA 150 is specially designed for the difficult flow rate applications of bulk solid products. The FTC technology incorporates several new features to get the best possible product / air ratio in pneumatic transport applications.

FBS 300 Flowrate indicator / totalizer



Introduction

The Triangle FSA 150 is a “Field Time Control” sensor. This is a new technology where a concentrated electric field is generated between the transmitting and the receiving electrode. The reaction time of the FTC sensor increases as soon as the solid particles intervene this electric field. The system provides a reliable and cost effective solution for: product selection, solid flow applications like powder and granulates, pneumatically conveyed products and product/air ratio controlled applications.

Technical specification

Enclosure

Material	Stainless steel electrodes and ceramic isolators.
Dimensions	75 x 75 x 43mm (2.95” x 2.95” x 1.69”) L x W x H per sensor.
Weight	1650 gr.
Sensor distance	max. 25mm. between transmitting and receiving electrode
electrode diam.	52mm (2.05”).

Cable specification

Cable entry	3-pole Lumberg M12 connector to the display. 2 connectors between the sensors.
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Terminal connections

Blue wire	Connect it to terminal 9 of the FBS 300.
White wire	Connect it to terminal 10 of the FBS 300.
Brown wire	Connect it to terminal 11 of the FBS 300.
Cover	Connect it to terminal 9 of the FBS 300.

Power requirements

Power supply	5.6V DC from the FBS 300.
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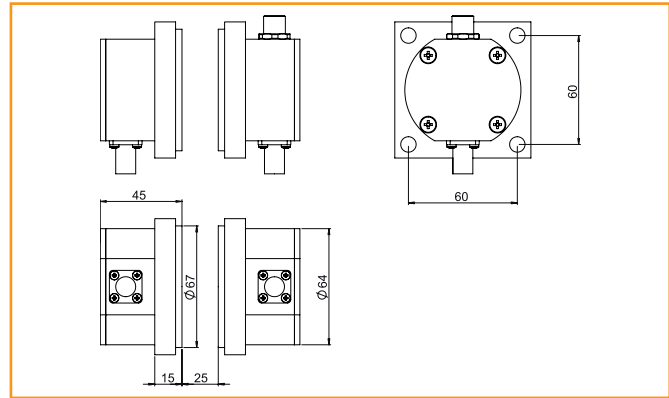
Operating specifications

Temperature	-40°C to +80°C (-40°F to +178°F).
Pressure	Max. 1 bar.
Frequency	0 - 250kHz.

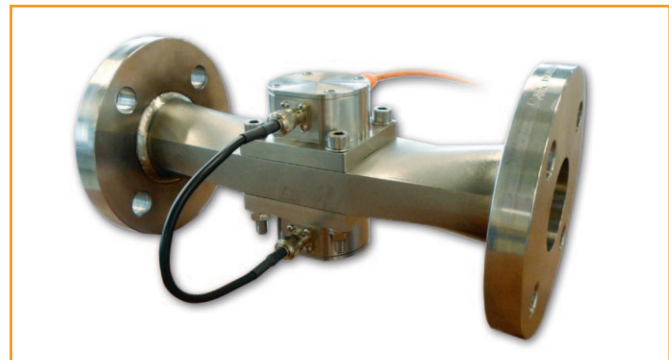
Sensor output

Signal	Field Time Controlled and fully compatible with the indicating transmitter FBS 300.
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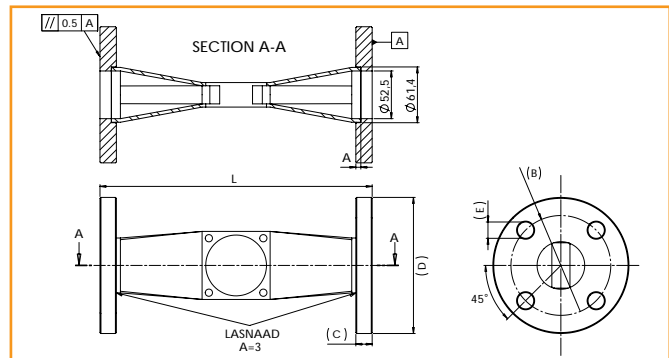
Dimensions Triangle FSA 150



Triangle FSA 150 with in-line flow fitting



Dimensions in-line flow fitting



Type Flens	A	B	C	D	E	L
DN40 PN10(/16)	5.5	Ø110	18	Ø150	Ø18	300
DN50 PN10(/16)	6.5	Ø125	19	Ø165	Ø18	300

Ordering information

Model	Ordering Code	Description
FSA 150		Triangle FSA 150 - flow sensor assembly (including COAX connection).
Material	C	Ceramic and Stainless steel 316L.
Length	05	5 meter cable length between sensor and indicator.
Approvals	0	General purpose.
	1	Intrinsically Safe according ATEX (Pending).
Options	A	No options.
	B	In-line flow fitting 316L. DN50/PN10 flange
	C	In-line flow fitting 316L. DN40/PN10 flange

Specifications are subject to change without notice.

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