

Sensor for Production and Quality Control

Sensor



QMS 70E-WDS

Hossbach Sensor Technologie



QMS 70E - WDS



Features :

- E-shaped sensor for non-contact operation
- inspection or control of thick continuous or intermittently aligned products made of cotton, foil, fleece or paper materials
- stand alone operation or preferable operation within the HST sensor systems
- wide sensor gap for voluminous products
- compact sensor housing
- analog output 0...+10V version
- +24VDC +/- 10% operation voltage
- robust steel housing 300 x 200 x 150 mm

Description :

The QMS 70E-WDS is a compact and robust sensor using an unique capacitive sensor technique as well as highly sophisticated electronics. The QMS 70E-WDS covers solutions of a wide range of applications, where voluminous, non-metallised objects, products and materials having little weight are to be inspected or controlled.

The QMS 70E-WDS is easily mounted in machines to measure the continuous material flow as well as intermittently aligned products on carriers like foils or papers. The measurement object may also be packaged or enclosed.

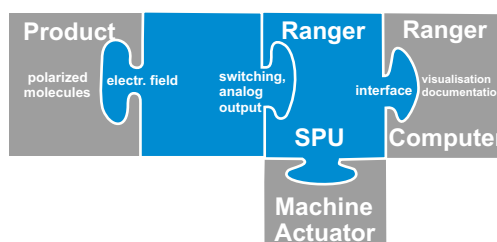
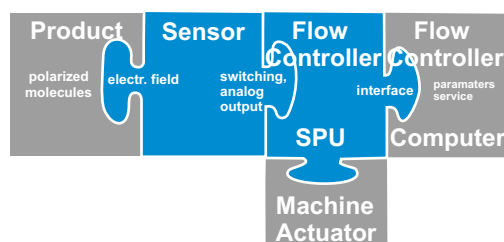
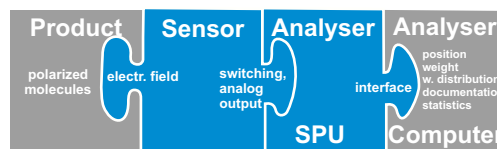
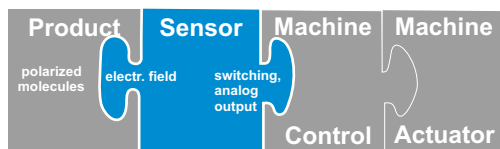
The QMS 70E-WDS can be delivered containing an analog output. Operation of this sensor versions allows to acquire the weight information of the transported product by a weight proportional voltage. This voltage is used by the inspection and control system, like HST Cotton Wool Weighing System, HST Flow Controller, HST Analyser or Ranger to derive and evaluate important qualitative and quantitative information and data. Among the qualitative information and data are production, machine and material etc. deficiencies. Weight, average weight, weight distribution, statistics etc. are classified to the quantitative information and data.

Example for Application see p. 234

Building Blocks :

Hossbach equipment

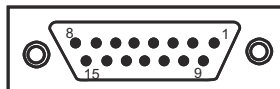
machine line device



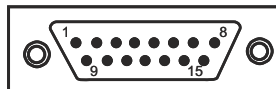
QMS 70E - WDS

Plug Connections : analog output

15 pin female SUB-D sensor connector

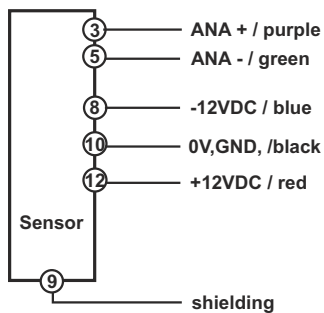


15 pin male SUB-D sensor cable connector



sensor version sensor+profiler	15 pin male sensor connector*)	cable color	15 pin male SUB-D cable connector **)	function
	pin 3 pin 5 pin 8 pin 9 pin 10 pin 12	purple green blue blanc black red	pin 3 pin 5 pin 8 pin 9 pin 10 pin 12	analog output +5V analog output -5V power supply -12V shielding 0V GND power supply +12V
pin assignment may differ for different applications		don't use pin 1,2,4,6,7,11,13,14,15		

sensor connector pins



sensor cable



QMS 70E - WDS

Technical Data :

sensitivity :	middle	output :	analog voltage output 0...10V	operation temperature range :	0...40° C
measurement mode :	permanent	operation voltage :	+24VDC +- 10% 40mA typ.	storage temperature range :	0...50°C
lowest detectable weight quantity :	< 10 mg	mounting :	not fixed, standing on rubber feet	meets or exceeds standard and requirements :	EN 50011 class A EN 61326-1:2006
accuracy :	typical 1...3 % depending on material quantity and material characteristics	dimension :	300 x 200 x 150 mm	protection type	IP 60
evaluation time :	< 1ms				
active sensing area :	appr. 120 x 210 mm				
gap height :	40 mm				



Order Data :

sensor version	order no.
QMS 70E-WDS for permanent, continuous measurement with analog output 0...10V	QMS70E-WDS-PERM-ANA
sensor including connection cable	

QMS 70E - WDS

Dimension : [mm]

