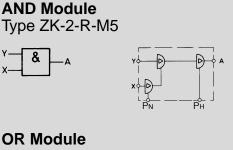
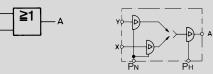
Non-Contact Pneumatic Sensors

Logic Components for Sensor Output Signals

FESTO



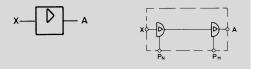
Type OS-2-R-M5



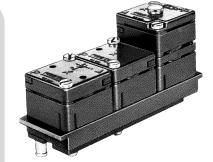
NOT Module Type VLO-R-M5

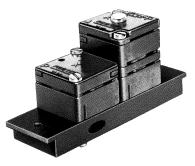


Amplifier Module Type VK-R-M5



Dimensions, See page 207.





These elements amplify and process output signals from pneumatic sensors with pressures of 0.02 to 3.8 psi / 0.001 to 0.25 bar.

Each element is factory-mounted on a 2n width mounting plate.

Function:

Type ZK-2-R-M5

AND logic amplification element for pneumatic sensors. An output is present at A if both X and Y are present.

Type OS-2-R-M5

OR logic amplification element for pneumatic sensors. An output is present at A if either X or Y is present.

Type VLO-R-M5

Logic amplification element for pneumatic sensors. An output is present at A if X is present and Y is NOT present.

Type VK-R-M5

Amplifier element for pneumatic sensors with two-stage amplification. An output is present at A if X is present.

For the sub-base, internal connections are accomplished by means of integrated air channels.

Signal inputs X and Y of the four elements are supplied with low pressure (sensor output signals). The output at A is a high pressure signal (supplied by P_{H}).

An air pressure supply of 15 to 105 psi / 1 to 7 bar is required at $P_H.$ An additional air pressure supply of 1.5 to 3.8 psi / 0.1 to 0.25 bar is required at connection $P_N.$

Order Number P	art No./Type	7421 ZK-2-R-M5	7423 OS-2-R-M5	7422 VLO-R-M5	7425 VK-R-M5
Medium		Compressed air (through 5 micron filter, dried, unlubricated)			
Mounting		On 2n mounting racks			
Connection		P _N , X, Y: Barbed fitting for 1/4 in / 4 mm tubing; P _H , A: M5			
Orifice Size		Low pressure: 1/4 in / 4 mm. High pressure: 0.098 in / 2.5 mm			
Air Flow (P→A)		2.8 SCFM / 80 I/min			
Supply Pressure Range at PN*		1.5 to 3.8 psi / 0.1 to 0.25 bar			
Signal Pressure Range at PH		15 to 105 psi / 1 to 7 bar			
Control Pressure Range at X, Y		0.015 to 4 psi / 0.001 to 0.25 bar			
Constant Air Consumption, Not Actuated		Low pressure: 0.05 SCFM at 1.5 psi / 1.4 l/min at 0.1 bar. High pressure: 3.15 SCFM at 90 psi / 3.6 l/min at 6 bar.			
Ambient Temperature		14 to 140°F / -10 to +60°C†			
Design		Seat valve, piloted			
Material		Housing: plastic. Seals: Buna N. Mounting plate: Al, plastic			
Weight		0.192 lb / 0.087 kg		0.165 lb / 0.075 kg	

* 14 to 140°F / -10 to +60°C temperature range of medium

† Depending on tubing used

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components Complete custom engineered solutions



Custom Control Cabinets Comprehensive engineering support and on-site services



Complete Systems Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical Electromechanical actuators, motors, controllers & drives



Pneumatics Pneumatic linear and rotary actuators, valves, and air supply



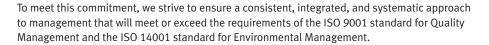
PLCs and I/O Devices PLC's, operator interfaces, sensors and I/O devices

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Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

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