



## ELEMENTS OF PNEUMATIC LOGIC

### PROXIMITY SENSORS

Amplified, 1/8" internal orifice

Sensing distance 2-5mm

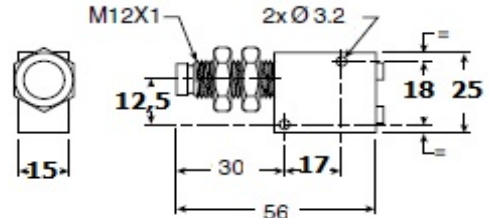
M12x2 mounting

Automatic fitting connections for 4 mm tube

Operating Principle: Fluid proximity sensors are used for applications requiring non-contact sensing of a moving part. The sensor emits a continuous jet of air (A) at low pressure, when the object to be detected interferes with this jet of air, a back pressure (a) is created and the PRD-A12 amplifier relay generates an output signal (S) equal to the supply pressure (P).



**PXD-A111**



18VLOG **PXD-A111**

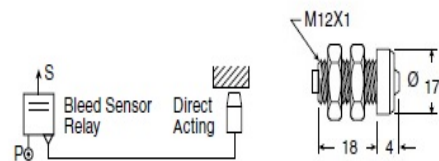
### VENT SENSORS

Vent sensors are used for detecting low forces and short strokes. They are simple to install and connect as they only require a single hose. Detected object blocks low-flow purge air. An increase in pressure in the pipe (T) creates a pneumatic signal (S) on the relay equal to the supply pressure (P). The length of the interconnecting tube must remain short if fast response times are required.



**PXF-A111 AZIONE A SFIORAMENTO**

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