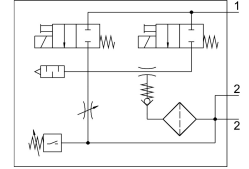


# Vacuum generator VADMI-140-LS-N

Part number: 171060

**FESTO**



## Data sheet

| Feature                       | Value  |
|-------------------------------|--|
| Nominal size, Laval nozzle    | 1.4 mm   |
| Grid dimension                | 22 mm  |
| Silencer design               | Closed   |
| Mounting position             | optional   |
| Ejector characteristic        | High vacuum  |
| Grade of filtration           | 40 µm  |
| Manual override               | Non-detenting  |
| Integrated function           | Electric ejector pulse valve<br>Flow control<br>Electric on-off valve<br>Filter<br>Air saving function, electrical<br>Check valve<br>Vacuum switch |
| Measured variable             | Relative pressure  |
| Measuring principle           | Piezoresistive   |
| Switching element function    | N/O contact  |
| Switching function            | Threshold value comparator   |
| Valve function                | Closed   |
| Reverse polarity protection   | For all electrical connections   |
| Display type                  | LED  |
| Setting range hysteresis      | -60 kPa...-10 kPa<br>-0.6 bar...-0.1 bar<br>-8.7 psi...-1.45 psi   |
| Setting options               | Potentiometer  |
| Switching status indication   | Optical  |
| Setting range threshold value | -90 kPa...-20 kPa<br>-0.9 bar...-0.2 bar<br>-13.05 psi...-2.9 psi  |
| Operating pressure            | 0.2 MPa...0.8 MPa<br>2 bar...8 bar<br>29 psi...116 psi   |
| Max. vacuum                   | 85 %   |

| Feature  | Value  |
|--|--|
| Nominal operating pressure                                       | 0.6 MPa<br>6 bar<br>87 psi                           |
| Max. overload pressure   | 5 bar  |
| Air supply time at nominal operating pressure with ejector pulse | 0.19 s   |
| Operational voltage range DC                                     | 21.6 V...26.4 V                                      |
| Duty cycle   | 100%   |
| Switching output   | NPN  |
| Approval   | RCM trademark<br>c UL us - Recognized (OL)           |
| CE mark (see declaration of conformity)                          | To EU EMC Directive                                  |
| CE marking (see declaration of conformity)                       | To UK instructions for EMC                           |
| Operating medium   | Compressed air to ISO 8573-1:2010 [7:4:4]            |
| Note on operating and pilot medium                               | Lubricated operation not possible                    |
| Corrosion resistance class CRC                                   | 2 - Moderate corrosion stress                        |
| LABS (PWIS) conformity   | VDMA24364-B1/B2-L                                    |
| Media temperature  | 0 °C...60 °C   |
| Degree of protection   | IP65   |
| Ambient temperature  | 0 °C...50 °C   |
| Product weight   | 330 g  |
| Pressure measuring range   | 0 MPa...0.1 MPa<br>0 bar...1 bar<br>0 psi...14.5 psi |
| Electrical connection  | 4-pin<br>M8x1<br>Plugs                               |
| Type of mounting   | Either:<br>With through-hole<br>Via female thread    |
| Pneumatic connection, port 1                                     | G1/8   |
| Pneumatic connection, port 3                                     | Integrated silencer                                  |
| Vacuum connection  | G1/4   |
| Note on materials  | RoHS-compliant                                       |
| Material seals   | NBR  |
| Material receiver nozzle   | Brass, nickel-plated                                 |
| Material filter  | PA   |
| Material filter housing  | PC   |
| Material housing   | Wrought aluminium alloy                              |
| Material silencer  | PE<br>POM  |
| Material piston  | POM  |
| Material transmitter nozzle                                      | Nickel-plated brass                                  |