

# ELECTRO•SENSORS

Superior • Systems • Solutions

## DMS-SERIES DIN-Rail Mountable Speed Switch

- Easy installation and calibration
- Set point ranges: 5 - 5000 RPM available
- 115/230 VAC, also available in 12 VDC / 24 VDC models
- Works with NPN, PNP, Mag Sensor and Logic Level Sensor Inputs
- Dual setpoints for under or overspeed monitoring
- DIN-Rail mountable speed switch module
- Economical, reliable shaft speed monitoring



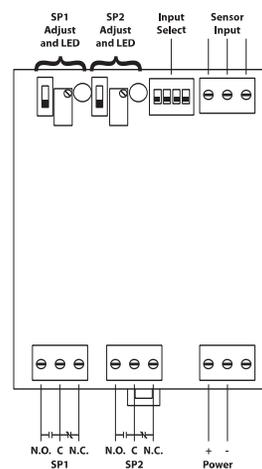
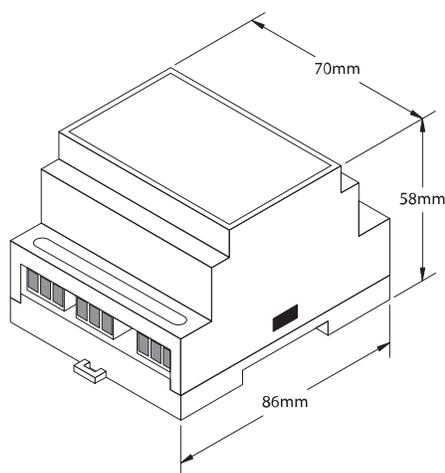
### Product Information

#### Description

The DMS-Series speed switch is an economical choice designed primarily for OEM use on machinery requiring shaft speed monitoring. Housed in a compact plastic enclosure, it mounts on a standard 35 mm DIN rail and operates on 115/230 VAC with optional DC units available. The unit is switch selectable for NPN, PNP, mag sensor and logic level sensor inputs. Two models offer setpoint ranges from 5 - 5000 RPM. The setpoints are adjustable via two (2) 25-turn potentiometers located under the housing cover. Both setpoints are switch selectable for over- or under-speed operation. A viewable LED indicates the relay status for easy trouble shooting. The DMS-Series is typically used to detect a slowdown on conveyors, fans, blowers and other machinery where a reduction in shaft speed rotation could adversely affect plant operations.

Electro-Sensors' Speed Switches bring efficiency and safety to your operations by preventing machine damage, product waste and costly downtime.

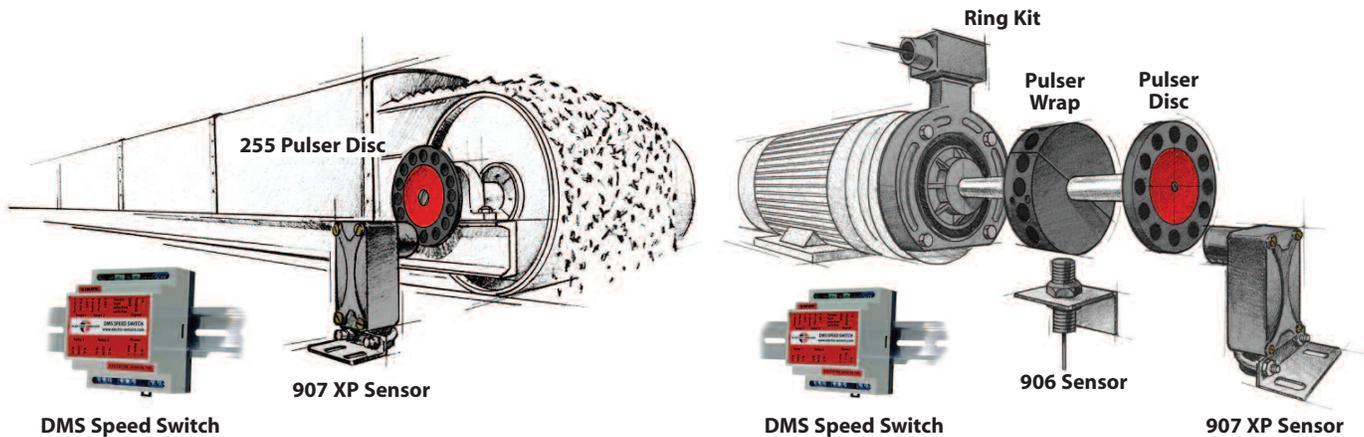
#### Dimensional Drawings • DMS-Series Din-Rail Mountable Speed Switch



# DMS-Series DIN-Rail Mountable Switch

## Applications • DMS-Series

The versatile **DMS-Series** speed switch, shown below working with a variety of Electro-Sensors' Hall-effect sensors, is also compatible with NPN, PNP, mag sensor and logic level sensor inputs.



The **DMS-Series** speed switch, designed primarily for OEM use, is the ideal choice for reliable, low-cost shaft speed monitoring on the following types of machinery:

- Fans/Blowers
- Industrial Ovens
- Dryers
- Belt Conveyors
- Screw Conveyors
- Motors
- Pumps
- Rotary Airlocks

## Specifications • DIN-Rail Mountable Speed Switch

### General Specifications

#### Power

|                     |                    |
|---------------------|--------------------|
| AC Models .....     | 115/230 VAC ± 10%  |
|                     | 50/60 Hz 1.0 VA    |
| 12 VDC Models ..... | + 12VDC ±10% 80mA  |
| 24VDC Models.....   | + 24VDC ± 10% 80mA |

#### Set Point

|                              |                            |
|------------------------------|----------------------------|
| 2 SPDT Relays Isolated       |                            |
| Contacts .....               | 250VAC @ 5A Resistive      |
|                              | + 30 VDC @ 5A Resistive    |
| Set Point Adjustment.....    | (2) 25 turn potentiometers |
| Under/Over Speed.....        | Individually selectable    |
| Setpoint Hysteresis .....    | 3% ± 1%                    |
| Set Point Accuracy .....     | ± 0.5%                     |
| Mounting .....               | 35 mm DIN Rail             |
| Electrical Connections ..... | Terminal Block             |

### Housing & Cover

|               |       |
|---------------|-------|
| Base .....    | Noryl |
| Housing ..... | Lexan |

### Sensing Head

|             |   |
|-------------|---|
| Power ..... | 20 mA maximum   |
| Type .....  | Switch Selectable NPN,<br>PNP, Mag Sensor,<br>Logic Level |

### Adjustment Range

|                      |   |
|----------------------|---|
| DMS100.....          | 5 RPM to 100 RPM<br>with 8 PPR input    |
| DMS5000 .....        | 100 RPM to 5000 RPM<br>with 4 PPR input |
| Operating Temp ..... | 0° to +50° C                            |