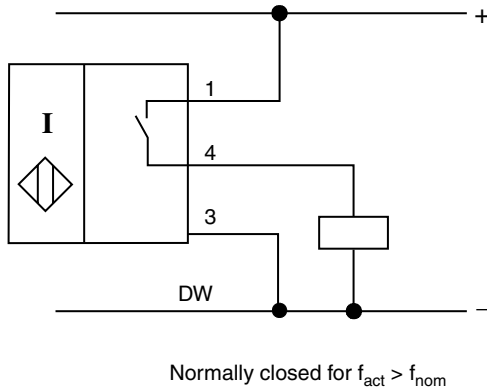


# Speed Monitors



Speed monitors are inductive proximity switches in which both the damping status and the act of exceeding or falling short of a reference frequency is signalled. The reference frequency is adjusted via a built-in potentiometer. If the actual frequency  $f_{act}$  measured by the proximity switch is smaller than  $f_{nom}$ , the output is switched off. If the measured actual frequency  $f_{act}$  is greater than  $f_{nom}$ , the output is closed (switched on).

This mode of operation has the advantage of reducing the reaction time to the lowest possible value, i.e.  $1/f_{act}$ .



The speed monitor is available for the following frequency and rotational speed ranges:

- 0.1 Hz ... 1 Hz, i.e.  $6 \text{ min}^{-1} \dots 60 \text{ min}^{-1}$ ,
- 1 Hz ... 10 Hz, i.e.  $60 \text{ min}^{-1} \dots 600 \text{ min}^{-1}$ ,
- 10 Hz ... 100 Hz, i.e.  $600 \text{ min}^{-1} \dots 6000 \text{ min}^{-1}$ .

The speed monitors are equipped with a start-up override: once the operating voltage is applied, the output is switched on for the duration of the start-up override.

