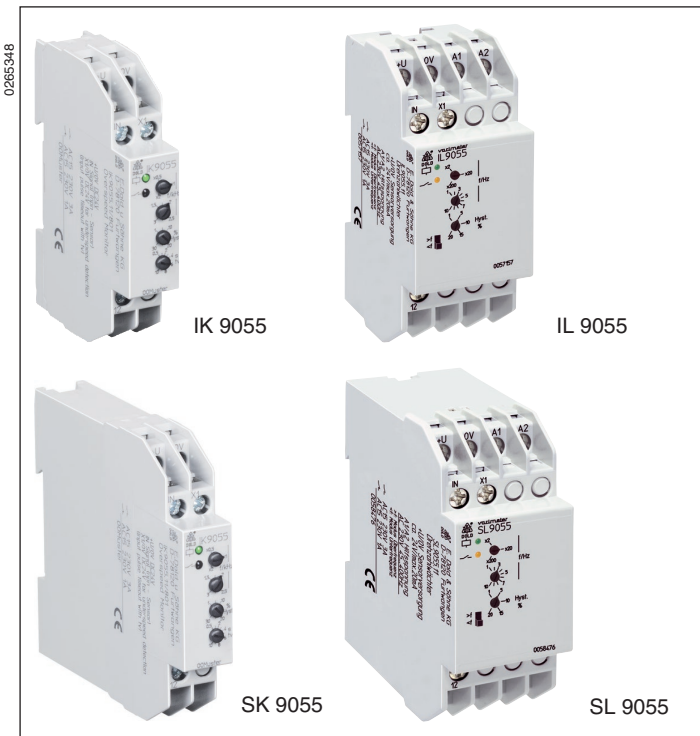


VARIMETER Speed Monitor IK 9055, IL 9055, SK 9055, SL 9055



Your Advantage

- Protection of persons, machines and products
- Easy setting
- Universal input, for configuration of different sensors (PNP, NPN, 2-wire, contact, voltage)

Features

- According to IEC/EN 60 255, DIN VDE 0435-303
- Detection of over- or underspeed or frequency, function selectable
- 3 selectable ranges for frequency or speed, adjustable tripping value
- Ranges up to 10 kHz (\approx 600.000 ipm) available, therefore suitable for turbines, centrifuges and similar applications
- Adjustable hysteresis
- Input also suitable for SKF sensor bearings
- As option for Namur sensors
- As option for permanent magnet sensors
- As option with adjustable switching delay/start up delay
- On request with manual reset
- IK 9055 and SK 9055: compact version for DC 24 V auxiliary supply
- IL 9055 and SL 9055: for auxiliary supply up to AC 400 V with galvanic separation to sensor input
- De-energized on trip (Energized on trip on request)
- LED indicators for auxiliary supply, sensor pulses and contact position
- 1 changeover contact (2 changeover on request)

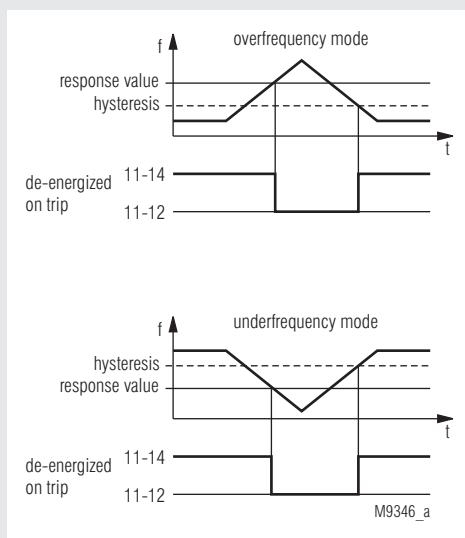
Devices available in 2 enclosure versions:

IK/IL 9055: depth 59 mm, with terminals at the bottom for installation systems and industrial distribution systems according to DIN 43 880

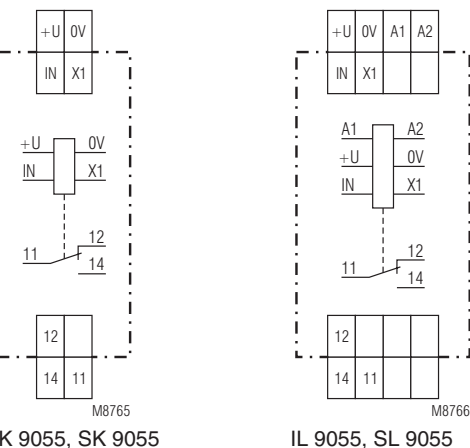
SK/SL 9055: depth 98 mm, with terminals at the top for cabinets with mounting plate and cable duct

- IK 9055, SK 9055: width 17.5 mm
- IL 9055, SL 9055: width 35 mm

Function Diagram



Circuit Diagrams



Approvals and Marking



Applications

Speed monitoring on rotating machine parts, monitoring of cyclic movements, general monitoring of pulse sequences (transportation, conveyors production systems), monitoring of pulse frequency (e.g. flow sensors, anemometers)

Function

The frequency to be monitored is connected to the input terminal IN. It is compared to the adjusted tripping value.

In overfrequency mode, the output relay switches into alarm position when the preset response value is exceeded. When the system frequency once more falls below the response value minus the preset hysteresis, the output relay will switch back into normal position.

In underfrequency mode, the output relay switches into alarm position when the actual value falls below the preset response value. When the system frequency once more exceeds the response value plus hysteresis, the output relay will switch back into normal position.

If de-energized on trip is selected, the output relay is energized (11-14 closed) in normal status. If energized on trip is selected, the output relay is energized (11-14 closed) in alarm status.

Indicators

- | | |
|-------------|---|
| Green LED: | On, when only auxiliary voltage connected to A1-A2, intermittent red/green flashing when pulses are on the input IN |
| Yellow LED: | On, when the output relay is energized (contacts 11-14 closed) |