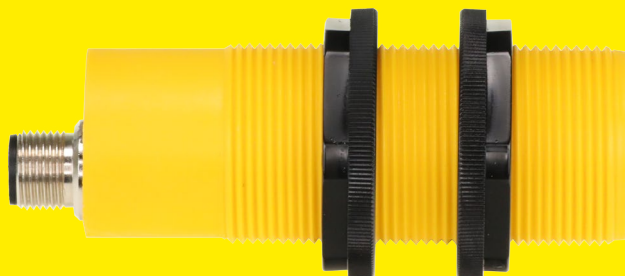


# Speed Monitors

## Inductive monitoring of motors

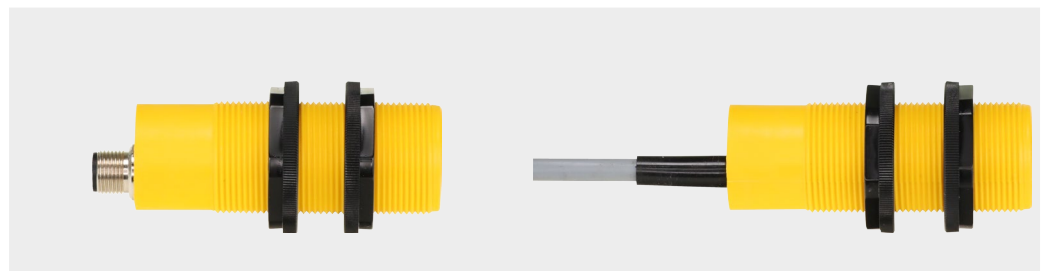
For drive and conveyor technology, transport systems or pumps



# Speed Monitors

Proxitron speed monitors are inductive sensors designed for the reliable monitoring of motors, drives and conveyor systems. They detect rotating or axially moving metal objects via pulses that are evaluated by the integrated electronics. This enables the reliable detection of standstill, slippage, overload or belt breakage, as well as overspeed and underspeed conditions. Two operating modes are available: simple threshold monitoring or monitoring of a defined speed range. The setpoint can be conveniently adjusted via Teach-In, and an adjustable start-up delay expands the range of applications. Proxitron speed monitors are available in different versions: for DC supply with PNP output, for AC/DC 2-wire operation, and for either flush or non-flush mounting. The robust, fully encapsulated plastic housing is maintenance-free and corrosion-resistant — ensuring reliable operation at low investment costs.

- Monitoring of motors and drives
- Detection of standstill or slippage of conveyor belts
- Recognition of overload or belt breakage
- Overspeed protection in case of pump dry run
- Switchable function modes:
  1. Underspeed
  2. Overspeed/underspeed (window monitoring)
- 5 – 6000 pulses/minute
- 0 – 120 seconds start-up delay
- Easy adjustment via Teach-In
- PNP NO + NC, or 2-wire NO/NC
- 20 – 260 V AC/DC or 10 – 55 V DC supply voltage
- Fully encapsulated plastic housing
- No maintenance, low investment costs
- Corrosion-free and chemically resistant



## General technical data

|                     |                                                                    |  |  |
|---------------------|--------------------------------------------------------------------|--|--|
| Monitoring range    | 5 - 6000 pulses/minute                                             |  |  |
| Setpoint adjustment | Teach-In                                                           |  |  |
| Start-up delay      | 0 - 120 seconds                                                    |  |  |
| Function type 1     | Underspeed monitoring (below a set value)                          |  |  |
| Function type 2     | Overspeed/underspeed monitoring of a defined range ("good window") |  |  |
| Housing             | M30                                                                |  |  |
| Material            | PBT                                                                |  |  |

## Electrical data

|                |                                                  |  |                                         |
|----------------|--------------------------------------------------|--|-----------------------------------------|
| Supply voltage | 10 - 55 V DC                                     |  | 20 - 260 V AC/DC                        |
| Output         | PNP normally open + normally closed (antivalent) |  | 2-wire normally open/closed, switchable |
| Connection     | plug S4 (M12x1)                                  |  | cable                                   |

## Sensor data

|                             |       |           |       |           |
|-----------------------------|-------|-----------|-------|-----------|
| Sensing distance $S_n$ [mm] | 10    | 15        | 10    | 15        |
| Mounting type               | flush | non flush | flush | non flush |

## Type selection

|          |                         |                         |                      |                      |
|----------|-------------------------|-------------------------|----------------------|----------------------|
| Type     | <b>IDLB 010.38 G S4</b> | <b>IDLB 015.38 G S4</b> | <b>IDLB 010.0A G</b> | <b>IDLB 015.0A G</b> |
| Art.-No. | 2473F                   | 2473E                   | 2474G                | 2474H                |