

Speed Sensor

Laser Speed Sensor



주파수 범위	10 ~ 16,000 Hz
사용 온도	-10 ~ +60 °C
사용 거리	0.05 ~ 2 m
크기	Φ 22 x 50 mm

LT101

Optoelectronic Sensors (Accessory)

Sensor A1S30, suitable for most applications



A1S30

Features

- ◆ Power supply by C118
- ◆ Sensing distance 1 ~ 2 cm
- ◆ Signal range 10 ~ 15,000 pulses/s
- ◆ Operating temperature 0 ~ 50 °C
- ◆ Best measurements obtainable when using self-adhesive reflecting foil U1A006
- ◆ A choice of 2 shaft lengths available (35 or 95 mm)

Sensor A1S36 for use in difficult conditions, for example in wet areas



A1S36

Features

- ◆ Power supply by C118
- ◆ Sensing distance 1 ~ 10 cm
- ◆ Signal range 10 ~ 15,000 pulses/s
- ◆ Operating temperature 0 ~ 60 °C
- ◆ Best measurements obtainable when using self-adhesive reflecting foil U1A006
- ◆ A choice of 2 shaft lengths available (35 or 95 mm)
- ◆ A choice of two cable lengths (2 m or 5 m)

Laser-Reflection Sensor A1S37 for extended sensing distance



A1S37

Features

- ◆ Power supply by C118
- ◆ Sensing distance up to 2 meters through a narrow gap or pane of glass
- ◆ Signal range 10 ~ 15,000 pulses/s
- ◆ Operating temperature 0 ~ 50 °C
- ◆ Marking with our self-adhesive reflecting foil (U1A006) is required
- ◆ Light Source: Red laser (ca. 645 nm), < 1 mW, Protection Class 2

Wheel Pulse Transmitters (Accessory)

Wheel Pulse Transmitter A1L04B200 for speed measurement on moving conveyor belts and on roll surface



A1L04B200

Features

- ◆ Speed range 0 ~ 1,200 m/min.
- ◆ 2 wheels each with a circumference of 200 mm
- ◆ Resolution 1,000 pulses/m
- ◆ Operating temperature 0 ~ 50 °C

Wheel Pulse Transmitter A1L05B500 for speed measurement on moving conveyor belts and on roll surface



A1L05B500-5V

Features

- ◆ Speed range 0 ~ 3,000 m/min.
- ◆ 2 wheels each with a circumference of 500 mm
- ◆ Resolution 1,000 pulses/m
- ◆ Operating temperature 0 ~ 50 °C

Differential Hall Effect Sensor



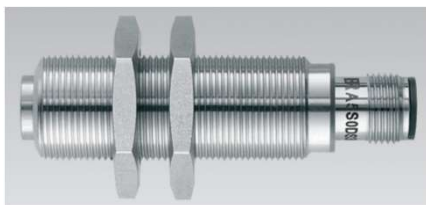
Hazardous Area (Ex)	Signal Frequency	Signal Output
0 = No 1 = Yes	DD = 0 Hz...25 kHz DS = 0 Hz...12 kHz	0 = 1x Frequency 3 = 1x Frequency / 1x Direction 4 = 2x Frequency, phase shifted
A5S 0...	A5S0 DD... A5S0 DS...	A5S0DD 0... A5S0DD 3... A5S0DD 4... A5S0DS 0... A5S0DS 3... A5S0DS 4...
Ex ia (intrinsically safe) requires Isolating Barrier D461	A5S1 DD... A5S1 DS...	A5S1DD 0... A5S1DD 3... A5S1DD 4... A5S1DS 0... A5S1DS 3... A5S1DS 4...
Ex nA (non-incendive)	A5S1 DD...-n A5S1 DS...-n	A5S1DD 0...-n A5S1DD 3...-n A5S1DD 4...-n A5S1DS 0...-n A5S1DS 3...-n A5S1DS 4...-n

Hall-Effect Speed Sensors Series A5S

A5S0... (Non-Hazardous Area)

A5S1... (Hazardous Area Ex Zone 0 or 1)

A5S1... -n (Hazardous Area Ex Zone 2)



Series A5S

Features

- ◆ Detection of rotational speed in non hazardous areas (Series A5S0DD0 / A5S0DS0)
- ◆ Detection of rotational speed and direction of rotation in non hazardous areas (Series A5S0DD3 / A5S0DS3)
- ◆ Detection of rotational speed and direction of rotation providing two phase-shifted speed signals, direction detection in subsequent monitor in non hazardous areas (Series A5S0DD4 / A5S0DS4)
- ◆ Speed range from 0 Hz up to 25 kHz (response time < 20 microseconds)
- ◆ Air gap to the target / pole wheel up to 2.5 mm (depending on the profile size)
- ◆ Temperature range -40 ~ +125 °C (-40 ~ +255 °F)
- ◆ Differential principle diminishes the influence of external magnetic stray fields and of machine vibration
- ◆ Sealed stainless steel enclosure > 200 bar pressure to sensor tip
- ◆ Available for connection via tight plug, or with firmly attached cable (PVC or Teflon® insulated)
- ◆ Powerful square wave output signal equally high over the entire speed range
- ◆ Sensor short circuit proof and protected versus polarity error
- ◆ Accepting fine and coarse profiles, as gear wheels, slots, cams, holes in any ferrous material

Company Specialized in Sound/Vibration



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