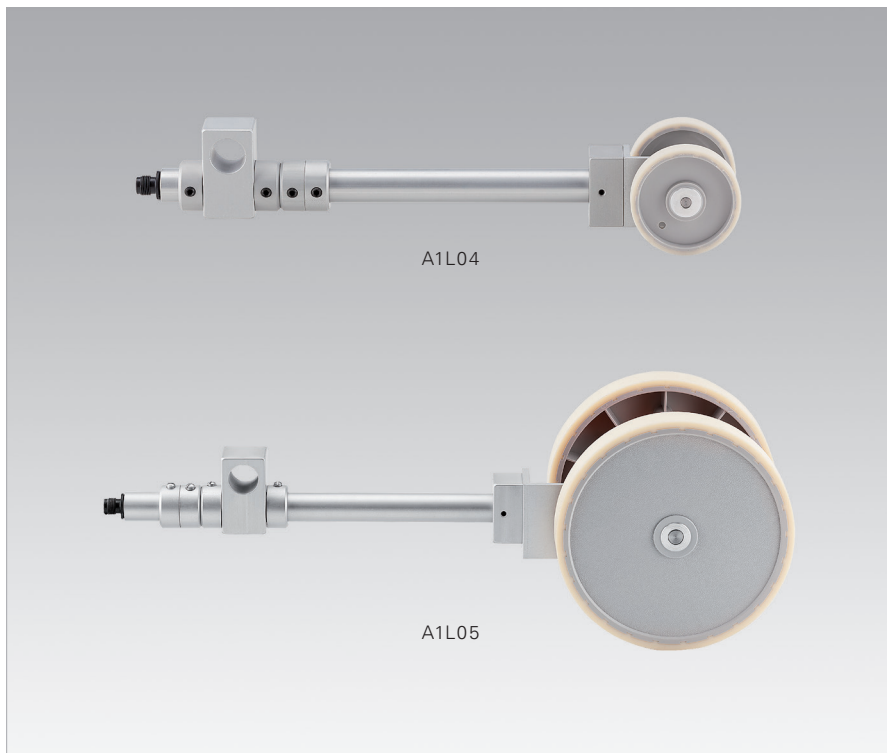


Wheel Pulse Transmitters

for measuring speed and length

Series A1L04 / A1L05



KEY FEATURES

- Speed range 0...1200 m/min. (A1L04) or 0...3000 m/min. (A1L05)
- 2 Wheels each with a circumference of 200 mm (A1L04) or 500 mm (A1L05)
- Resolution 1000 pulses/m
- Square wave pulse output
- Operating temperature 0...50 °C

BENEFITS

- Fast response and high resolution due to providing 1000 pulses per meter
- Flexible use for many applications due to its wide speed range
- Easy installation, prepared to use a supporting rod, thus resting on the surface by its natural weight
- Protection grade IP54 for use in a non-aggressive environment

Fast and precise detection of speed and material length

The BRAUN Wheel Pulse Transmitters Series A1L04 / A1L05 are perfectly designed for measuring speed and length on moving conveyor belts, on a web or a roll surface or similar. The wheel pulser detects its motion and transmits a pulse train to a measuring unit. This unit will convert this signal into a display, or analog or data signals of the speed or length.

Installation

A rod (20 mm in diameter) crossing the surface under measurement, should support the sensor at its end. This rod is put through the bore in the swivel head adjustable at the end of the sensor support bar. The sensor wheels thus should rest on the surface under measurement by the sensor's natural weight, and in a way to be pulled (not pushed) by the moving surface.

Connection

By plug-in socket at the rear end. Fits our signal cables L3A. Available ready to connect with any length to order. To connect to our portables with the ready to use cable L3A25BP.

Specifications of A1L04 / A1L05

Maximum Speed	1200 m/min. with model A1L04B200 3000 m/min. with model A1L05B500
Resolution	1000 pulses per meter
Accuracy	± 0,5 % (clean wheels presumed)
Output	Square wave pulse (1 trace only) Level = supply minus 2 V Load up to 20 mA
Power Supply	A1L04B200 : +5...+30 V DC / 20 mA + load A1L05B500 : +10...+30 V DC / 20 mA + load A1L05B500-5V : +5 V DC / 20 mA + load* *in connection with the portable hand-tachometer C118
Operating Conditions	Ambient temperature: 0...50 °C (30...125 °F) Relative humidity max. 80%, non-condensing

Ordering Information

Type	Wheel circumference	Ø Wheel	Outer wheel distance	Required support rod Ø	Adjustable distance from web to supporting rod
A1L04B200	200 mm ± 1	appr. 63,7 mm	70 mm	20 mm	120 mm - 310 mm
A1L05B500	500 mm ± 2	appr. 159,1 mm	136 mm	20 mm	230 mm - 420 mm
A1L05B500-5V	500 mm ± 2	appr. 159,1 mm	136 mm	20 mm	230 mm - 420 mm

Model No. above plus required cable length (or plug only).

BRAUN – Speed Monitoring and Protection Systems for Rotating Equipment

BRAUN Industrial Electronics develops, produces and sells an array of "Rotating Equipment" protection systems for use in industrial applications worldwide with the focus on overspeed protection. These systems comply with the highest standards of safety and availability.

As a globally leading technology provider with over 50 years of experience, BRAUN has been continually meeting and mastering the challenges associated with protecting the facilities of companies within the power generation, oil, gas, and chemical industries. Our protection systems are installed in more than 100 countries around the world and are mainly used in safety-critical applications with rotating parts.

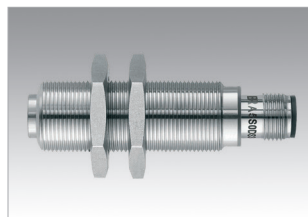
For our OEM customers, BRAUN is both a solution oriented systems provider and a reliable partner.

Our solutions comprise a variety of products for the detection and monitoring of speed and related parameters.

Always matching the requirement. Always the perfect solution for safety and availability.



PROTECTION SYSTEMS



SPEED SENSORS



TACHOMETERS



PORTABLE TACHOMETERS

