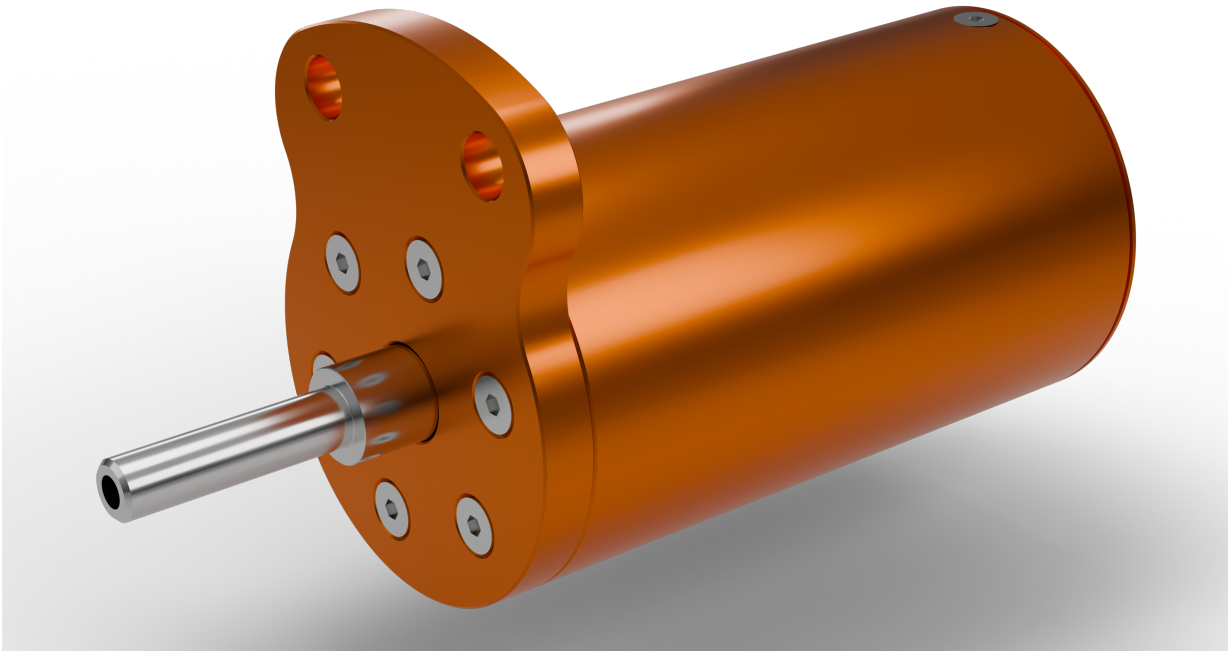
ACCURATE INDUSTRIES

PRODUCT BROCHURE | SPEED SENSORS

Universal Speed Sensor
USR V1.1

BELT WEIGHING | BELT UNDER-SPEED MONITORING



One Solution. Configured for your conveyor.

The USR V1.1 can supply speed signals to weighing and under-speed systems simultaneously. With two optical or proximity sensors, the outputs can be different types: for example, NPN for weighing and PNP for under-speed monitoring.

FLEXIBLE OUTPUTS
Optical, proximity or encoder configurations.

SIMULTANEOUS OUTPUTS
Supply weighing and under-speed systems at the same time.

ADAPTABLE MOUNTING
Trailing-arm or pulley shaft arrangements.

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CONFIGURE THE SIGNAL TO SUIT YOUR SYSTEM

The USR V1.1 houses one sensing type at a time: optical, proximity or encoder. Optical and proximity configurations support two outputs of different types to suit each system: for example, NPN for weighing and PNP for under-speed simultaneously. The encoder option has one output.

Sensing type	Output type	Supply voltage	Outputs	Pulses / rev.
Optical	NPN or PNP open-collector	5-24 V DC ±10%	2	28
M12 proximity (3-wire)	NPN or PNP, normally open	10-30 V DC	2	8
M12 proximity (2-wire)	DC sink/source, normally open	10-30 V DC	2	8
Encoder	Push-pull; no reverse signal	5-30 V DC	1	600

WEIGHING + UNDER-SPEED: OPERATE BOTH AT ONCE

BELT WEIGHING

One output supplies a speed signal to a compatible weightometer integrator to determine belt travel and calculate material flow with the belt load measurement.

BELT UNDER-SPEED

At the same time, the second output supplies a speed signal to a compatible under-speed monitor or PLC, which evaluates belt speed against the required threshold and manages alarms or trips.

MOUNTING TO SUIT YOUR CONVEYOR

TRAILING ARM

The trailing-arm arrangement measures belt movement and can be mounted close to your weightometer or the required speed input location.

PULLEY SHAFT MOUNTED

The sensor is driven from a conveyor pulley shaft. The machined shaft can be adapted to the required pulley or wheel arrangement.

> **DUAL-SENSOR REDUNDANCY**
>
> Configure two optical or proximity sensors for one weightometer or one under-speed system as a duty/standby pair. If the duty sensor fails, change over to the second sensor so production can continue without stopping for sensor replacement.