SENCON
SENSING • TESTING • GAUGING

Linear Mass Sensors



Unique and versatile sensors which provide smooth, precise, self-correcting speed control on canmaking lines

When used on the infeed to machines, the LMS controls machine speed to perfectly match the rate of cans being supplied to the machine. It will do this smoothly without overshoot across a wide speed range, eliminating the constant speed variations that are a design feature of traditional, slow-medium-high speed control systems.

- **Can density can be monitored at any point on the line**
- **Machine speeds can be smoothly modulated and coordinated**
- **Optimum line efficiency**
- **Suitable for mass, single file and variable speed conveyors, gravity drops and metering units**

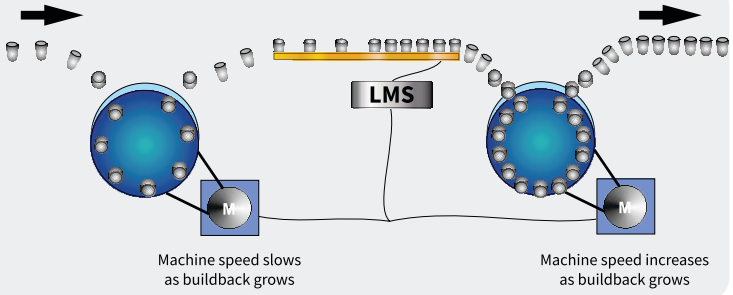
Ordering Information

CODE	DESCRIPTION	OPERATING VOLTAGE	POWER CONSUMPTION
LMS2400-25-UC	Linear Mass Sensor Kit: 25' (7.6m) range*	11 - 24 VDC	3 Watts
LMS2400-40-UC	Linear Mass Sensor Kit: 40' (12.2m) range*	11 - 24 VDC	3 Watts
T400WR-UC	Amplifier output Module (enclosed)	11 - 24 VDC	3 Watts

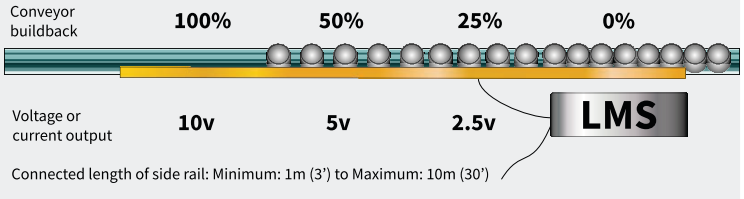
*The LMS Sensor Kit is supplied complete with: T400 amplifier output module, high quality, special coated stainless steel sensor wire and a mounting kit.

MANY APPLICATIONS: The LMS can be used on mass conveyors, single file conveyors, gravity drops, variable speed conveyors, and metering units. Applications are limited only by the imagination of the control engineer.

CONVEYOR PRESSURE CONTROL: The LMS enables conveyor speed to be varied relative to back up. When full, the conveyor should run at machine rate, creating no excess can pressure, but as it empties the speed should increase. So when recovering from an empty-out situation, conveyor speed is maximum, thus reducing transit and refill times, adding precious seconds to the line.



EASY INSTALLATION ON COMPLEX CONVEYORS: Another possibility is to isolate and use the side rail on one or both sides of the track to monitor can density instead of using the sensor wire. This makes installation practical on complex conveyor shapes such as swan necks or curved 'tunnel' track.



© Copyright 2026 Sencon Group. All rights reserved. Specifications subject to change without notice. E&OE

TECHNICAL SPECIFICATIONS

Operating Voltage:	11 - 24 VDC
Power Consumption:	3 Watts
Operating Temperature:	0°C to 50°C (32°F to 122°F) 0 to 90% relative humidity, non-condensing
Dimensions:	T400WR: 125mm x 75mm x 75mm (4.92" x 2.95" x 2.95")
Analog Output:	Default: 0 to 10 VDC Selectable: 4 to 20 mA
Alarm Outputs:	Maximum Load: 75 mA. Typical ON resistance at 25 mA is 25Ω. 500 mW maximum power through the switch Voltage Range: 0 to 240 VAC RMS or 0 to 380 VDC Leakage Current: <1 microamp Output Type: Bi - directional, isolated solid state switches Output Configuration: Suitable for DC source, DC sink, or AC
Method of Detection:	Capacitance deviation. Detector wire is electrically isolated from input and output power.

© Copyright 2026 Sencon Group. All rights reserved. Specifications subject to change without notice. All trademarks acknowledged. E&OE

LINEAR MASS SENSORS

STABLE CONVEYOR CONDITIONS: Stable conveyor conditions are vital for today's lightweight cans and high speed machinery. The LMS enables complete speed control with minimum changes in conveyor back-up, so creating optimum conveyor conditions, empty out space, accumulation space and minimum can pressure.

PERFECT SPEED MATCHING: By providing an analog signal that is proportional to can back-up on the conveyor, the LMS2400 Linear Mass Sensor can be used to modulate machine or conveyor speed accordingly. When used on the infeed to machines, the LMS controls machine speed to perfectly match the rate of cans being supplied to the machine. It will do this smoothly without overshoot across a wide speed range, eliminating the constant speed variations that are a design feature of traditional, slow-medium-high speed control systems.

CLOSE COUPLED SYNCHRONIZATION: The output of the LMS responds to each can instantaneously, which means that a machine does not have to wait for a can to cover a sensor before it begins to respond. So close coupling of installed machines is possible, with perfect back-up and feed rates between each machine.

MAINTAINS OPTIMUM CONVEYOR CONDITIONS AND MINIMUM CAN PRESSURE:

- Two capacitance ranges with auto-switching capability
- Adjustable low and high alarms
- 'On the fly' adjustment of set points
- Adjustable low and high output signal limits
- 2 digit display to indicate signal level with a third digit for mode of operation



AREA MASS SENSORS

EXTEND MASS CONTROL BEYOND THE LINE

Sencon's Area Mass Sensors monitor can or cup accumulation across conveyor sections, providing a proportional output for precise control of line speed and flow. Ideal for accumulation zones and press discharge, they help prevent jams, stabilise production, and optimise line efficiency, extending reliable mass control beyond single-file measurement.

WORLDWIDE SUPPORT YOU CAN TRUST

We are committed to providing the best customer support worldwide with service engineers based in North and South America, Europe and Asia backed up with technical support from experienced industry specialists based at three technical support centers – you can trust Sencon.

Technical support is easily accessible through our 'Quick Assist' QR codes which offer support via WhatsApp*, email, web chat and telephone. Additionally, our online knowledge base provides support resources for all Sencon products.

***only available in Europe, Asia, Africa and Oceania**



Industry specialists since 1976

Sencon Inc.
North & Central America
TEL: +1 708 496 3100
info@sencon.com

Sencon
South America
TEL: + 55 19 9 9659 0145
info@sencon.lat

Sencon (UK) Ltd.
Europe, Asia, Africa, Oceania
TEL: +44 1905 827800
info@sencon.co.uk

www.sencon.com

© Copyright 2026 Sencon Group. All rights reserved. All trademarks acknowledged. Specifications subject to change without notice. E&OE