

## CSN210 MassFlow™

### Unrivaled Measuring Performance



#### Measures Everything

One of the challenges of dimensioning parcels in a massflow environment is when one parcel is hidden from the dimensioner in the shadow of another. The vertical scanning pattern of the CSN210 sees the entire belt so nothing passes through unmeasured.



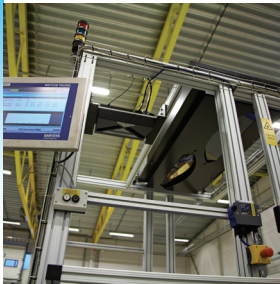
#### Measures at all Speeds

In a typical sorting environment, the sorter sometimes has to be stopped due to jams. While some dimensioners miss parcels as the belt slows down, the CSN210 continues measuring. It misses nothing during belt stops and starts, as well as at high speed, ensuring maximum parcel count and revenue recovery.



#### Accurately Measure Flat Objects

The CSN210 is the only massflow dimensioner on the market\* with legal-for-trade approvals for measuring less than two millimeters in height. This allows you to capture data and recover revenue on flat parcels.



#### Flexible Mounting Options

The CSN210 can be provided with custom-designed stands depending on site conditions. It comes in two sizes that cover different belt widths. The dimensioner can be supplied with barcode readers, which can be mounted in front of or behind the dimensioner.



#### Best in Class Read Rates In Massflow Environments

What sets the CSN210 apart from other dimensioners on the market is its cutting-edge PILAR® technology. The parallel light path scans over each parcel, capture all details and providing accurate measurements, with no risk of shadowing. This high-performance dimensioner measures almost any object shape, including flats, in massflow conditions. It typically provides a 2-4% higher parcel read rate than leading competitors, resulting in maximum possible revenue recovery.

# CSN210 MassFlow™

## Dynamic Dimensioning

### Features for Maximum Read Rate

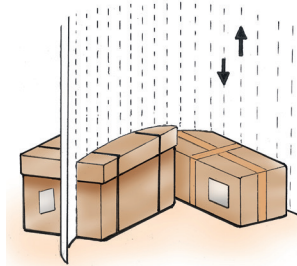
- Accurately measures any parcel in massflow environments
- Cutting-edge PILAR® technology guarantees no shadowing
- No minimum belt-speed restrictions means nothing is missed during stops and starts
- Approved to measure down to 2mm in height

### Features for Easy Integration

- Can handle belt widths up to 1,800 mm (72 in)

### Features for Efficient Sorting

- Determines position, angle and area occupied on conveyor for improved sorting
- Sends parcel height and position for focusing of barcode readers
- OCTO™ software manages data and enables seamless communication between dimensioner, barcode readers and sorting system.
- Live parcel animation shows parcel position, barcode location and parcel dimensions and ID for planning and process optimization.
- Side-by-side package detection



### PILAR® Technology

PILAR® is a reflective parallel-beam technology, using modulated infrared light that measures thousands of points looking at an object from the top. Laser range-finders measure time of flight of light, enabling it to recognise all details of the item being measured, forming a complete three-dimensional picture. The pictures are then used to determine object dimensions and coordinates.



### Known Shapes

A known-shape database is stored inside the dimensioner, enabling it to recognize particular shapes. This allows legal-for-trade measurement of cubes, prisms, cylinders, tires and irregularly shaped objects. The known-shapes feature provides visibility of package flow and increases revenue recovery.

## Technical Specifications

Dimensioning accuracy <sup>1)</sup>	Object length ≤ 3000 mm (120 in): ± 5 mm (0.2 in) Object length 3000 – 5000 mm (120 – 200 in): ± 10 mm (0.4 in)
Maximum size (LxWxH)	CSN210.2: 3000 x 1200 x 920 mm (120 x 48 x 36 in) CSN210.3: 3000 x 1800 x 920 mm (120 x 72 x 36 in)
Minimum size (LxWxH) <sup>1)</sup>	Non-touching objects: 50 x 50 x 25 mm (2 x 2 x 1 in) Touching objects: 100 x 50 x 25 mm (4 x 2 x 1 in)
Belt speed	Up to 1.3 m/s (250 ft/min)
Belt direction	Forward and reverse
Object flow	Singulated or touching (front-to-back, side-by-side)
Shape	Almost all shapes
Surface characteristics	Almost all surfaces
Orientation	Place most stable surface down
Spacing	None required
Operational temperature	0° to 40°C (32° to 104°F)
Power	115V 60Hz or 230V 50Hz
Laser type	Class 2
Interface	RS232 / Ethernet

<sup>1)</sup> If the instrument is used in Legal for Trade applications, this specification may vary. The dimensioner has been approved according to local recommendations.

[www.mt.com/CSN210](http://www.mt.com/CSN210)

For more information



Quality certificate ISO9001  
National Approvals  
Compliant to health and safety regulations  
Internet: <http://www.mt.com>  
Worldwide service

Subject to technical changes  
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