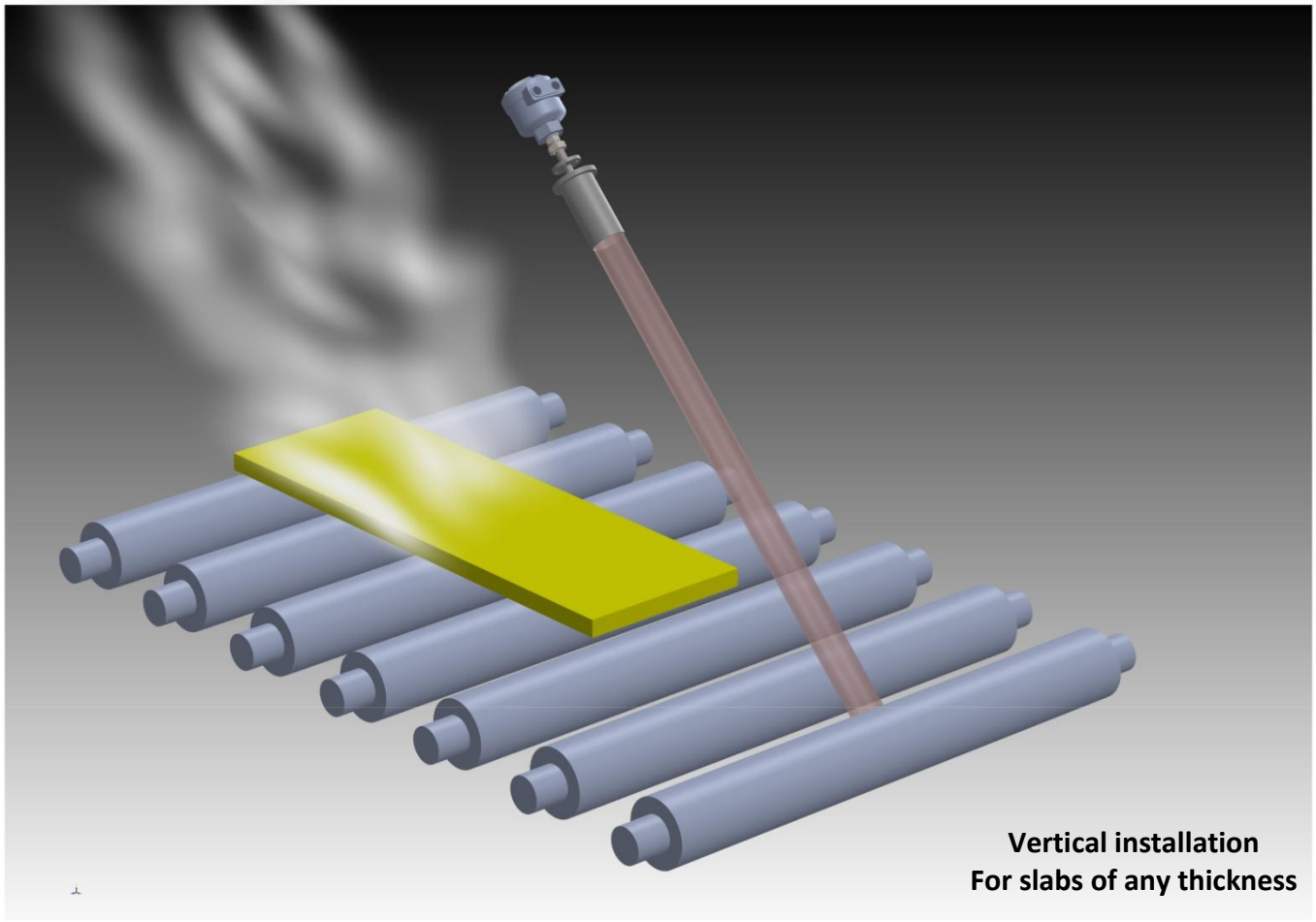
WADECO

RANGEFINDER-TYPE SLAB TRACKING SENSOR

MWS-MT-2 PAT.

MILLI-TRACKER

UNAFFECTED BY HEAT, DUST OR VAPOR!
5msec. High-speed Response



The Milli-Tracker MWS-MT-2 is a slab tracking sensor that utilizes the latest millimeter-wave technology. It achieves response speeds up to 10 times faster than conventional models*.

Its highly directional millimeter-wave beam allows for accurate detection of slab presence.

* Compared with our previous model: MWS-MT-1

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Overview

Unaffected by heat, dust, vapor or water!

The MWS-MT-2 slab tracking sensor was developed for tracking slabs in hot rolling lines.
It transmits millimeter waves from the antenna toward the roll and continuously measures the reflected signal from the roll.
When a slab blocks the millimeter waves between the antenna and the roll, the reflected signal is lost, and the sensor outputs a slab presence signal.
Because it uses a digital detection method, the sensor is unaffected by steam, surface water, or shower spray.

Features

Unaffected by adverse conditions

Millimeter waves are unaffected by heat, vapor, flames, water running on the slab and water spray.

High reliability

The MWS-MT-2 detects the presence or absence of the slab by receiving or not receiving the reflection from the roll. Because of digital detection, this will not be affected by vapor, water running on the slab or water spray.

High-speed response time

5 msec. update time.

High precision

Utilizes a highly directional beam to accurately detect slab presence.

No beam slippage

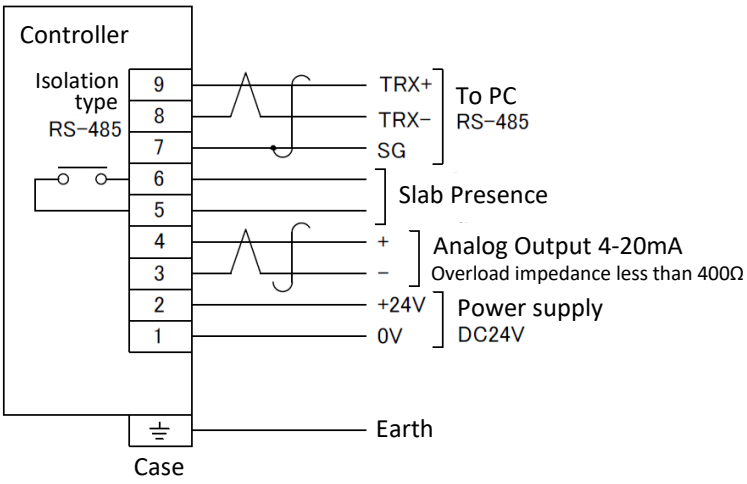
Beam adjustment is easy because the beam is conical-shaped and there will be no errors caused by slippage of the beam.

No set-to-set interference

This permits the use of multiple Milli-Trackers in close proximity to each other.

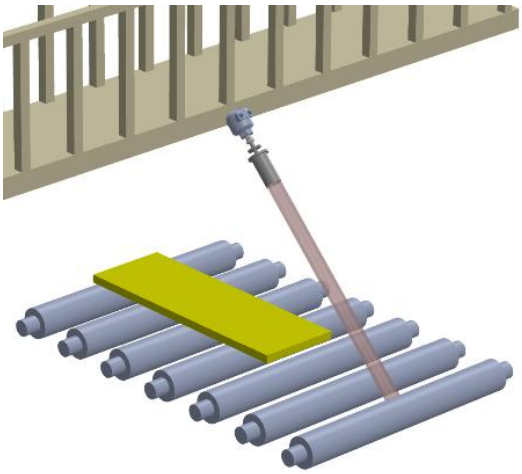
MODEL	MWS-MT-2
Power supply	DC24V
Operating range	1.5 to 6m (distance from antenna to roll)
Frequency & transmission power	79GHz, Less than 10mW
Slab presence output	1a solid state relay: DC24V, 0.1A
Analog output	4～20mA
Response time	Approx. 5msec.　(Approx. 20msec when using mWave software)
Noise immunity	Puls nose from noise simulator ±1KV (normal and common mode)
Ambient operating Temperature	Controller: -10℃～+50℃, Antenna: -20℃～+200℃
Enclosure rating	IP65 equivalent
Construction	Controller: Aluminum diecast, Antenna: Teflon, Antenna cover: SUS304
Color	Controller: Metallic silver gray
Wight	Controller: Approx. 1.1kg, Antenna: Approx. 2kg (with antenna cover)

Wiring

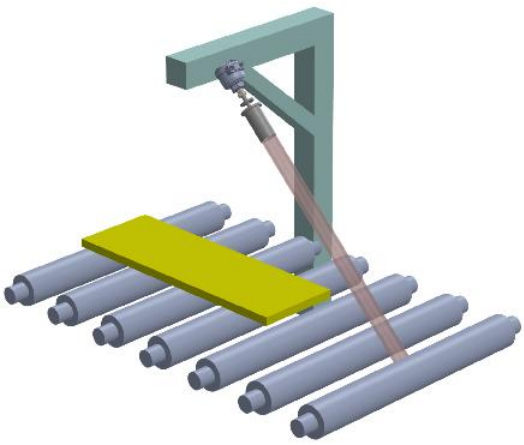


Relay configuration

Terminal number		5－6
Unpowered state		Open
Powered State	Non-detecting state	Close
	Detecting state	Open



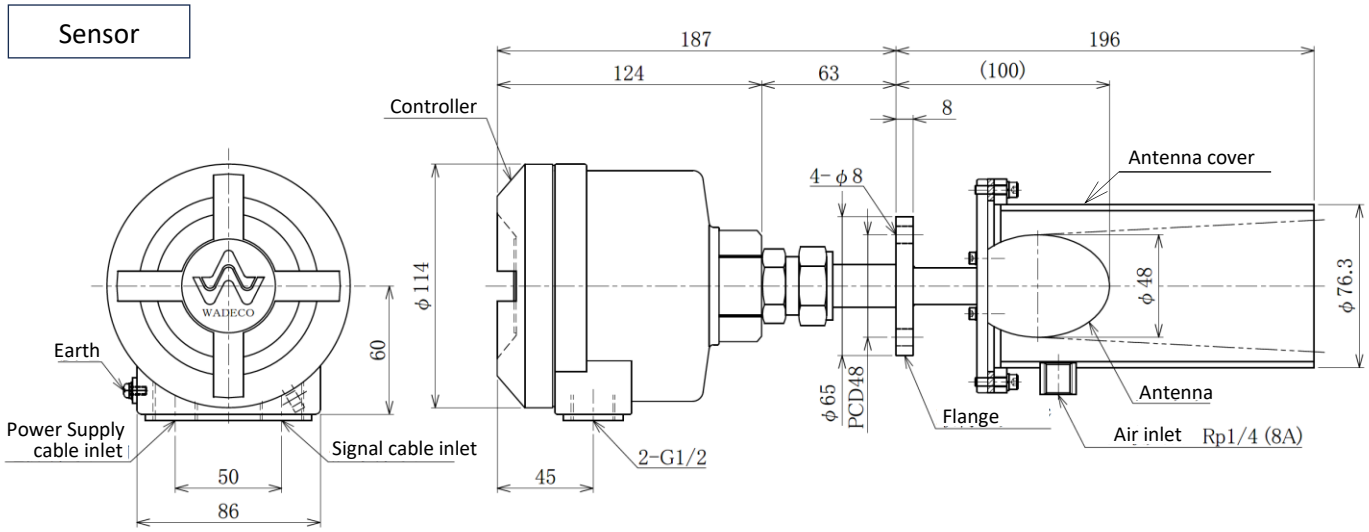
Installed on a bridge over the line



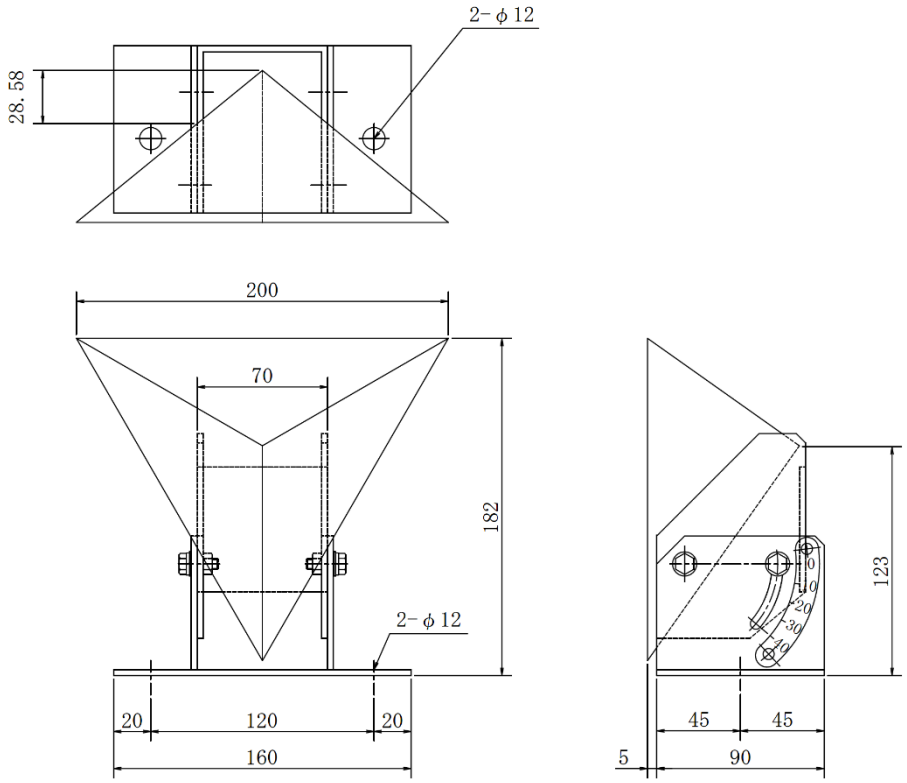
Installed using a support post next to the line

Dimensions

Sensor



Reflector



Note: A reflector can be used instead of a roll.

These specifications may be changed without notice.

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