SENCON
SENSING • TESTING • GAUGING

Flat Belt End Conveyor Sensors

Detects aluminium and steel ends while being carried on a flat belt conveyor

With a fast response time of <1 millisecond, the primary use for these sensors is for die protection in high speed press conveyor systems, but they are also used for part tracking, inspection system triggering and jam detection. Special circuitry and tuning enables the end to be detected but not the steel bed beneath the conveyor belt.



- **Narrow sensing field to reduce effect of side metal**
- **Senses ends not the conveyor bed**
- **Rugged stainless steel construction**
- **Slim 'pancake' style housing**
- **The use of inductive sensing technology eliminates the need for maintenance.**

Ordering Information

CODE	DESCRIPTION	MAXIMUM ACTUATION (FEROUS METALS)	CABLE TYPE
9-360-51-SS*	Flat Belt Sensor with Remote Adjustment	0.250" (6.35 mm)	4.6m (15') Integral Cable
11R-360-51-SS*	Flat Belt Sensor with Remote Adjustment	0.250" (6.35 mm)	Quick disconnect

PLEASE NOTE: 11 series sensors are not supplied with a cable. See table below for cable options.
*Adjustable models which require supporting termination equipment. Please consult Sencon for advice. Alternative configurations available on request

Optional Extras

CODE	ITEM	DESCRIPTION
325-40371-03	Sensor Interface Panel	SIP-6-NB 6-Channel Sensor Interface Panel without enclosure box
325-40371-02	Sensor Interface Panel	SIP-6-NB 6-Channel Sensor Interface Panel with enclosure box
QDC-6F-4S	Cable	2 m (6ft) Cable with straight connector
QDC-16F-4S	Cable	5 m (16ft) Cable with straight connector
QDC-32F-4S	Cable	10 m (32ft) Cable with straight connector
QDC-6F-4R	Cable	2m (6ft) Cable with right angled connector
QDC-16F-4R	Cable	5 m (16ft) Cable with right angled connector
QDC-32F-4R	Cable	10 m (32ft) Cable with right angled connector

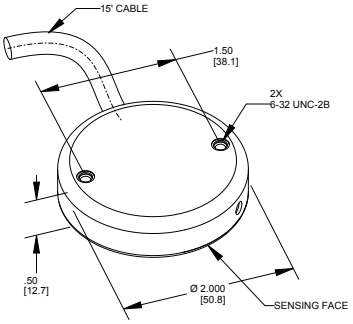
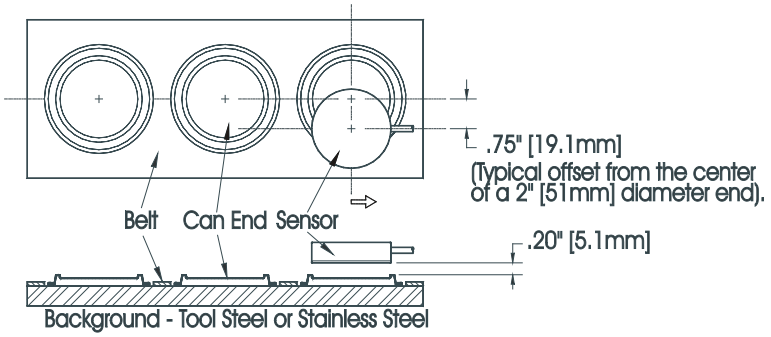
Other cable lengths and connector styles are available, please contact your local Sencon sales office for details.



MOSTLY USED FOR DIE PROTECTION IN HIGH SPEED PRESS CONVEYOR SYSTEMS

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TECHNICAL SPECIFICATIONS

Operating Voltage:	11 - 30 VDC
Connection:	sink(PNP) / source(NPN)
Maximum Actuation (Ferous Metals):	0.250" (6.35mm)
Response Time:	<1.0 ms
Dimensions:	Case Style K: Ø50.8mm (2") x 12.7mm (0.5") high 
Alarm Outputs:	Solid state switches: 0 to 190 Volts DC, 0 to 132 VAC (rms), 75mA max.
Minimum Pulse Width:	1ms
Bandwidth:	10khz
Additional Features:	Synchronization output for end splitting applications
Setting Distance:	 **NOTE:** For die protection and in circumstances where ends are closely spaced, the sensor should be mounted off the center line to prevent ends bridging the sensing field.

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FLAT BELT SENSORS

POSITIVE END DETECTION: Special circuitry and tuning enables the end to be detected but not the steel bed beneath the conveyor belt. A specially tailored narrow sensing field also reduces the effect of side metal.

ROBUST DESIGN: Slim 'pancake' style housing and rugged stainless steel construction give these sensors a long life and great reliability.

MAINTENANCE FREE: The use of inductive sensing technology eliminates the need for maintenance.

ADDITIONAL BENEFITS: The 9-360-51SS and 11R-360-51SS sensors can also be used for part tracking, inspection system triggering and jam detection.

END COUNT SENSOR

Accurate counting of beverage or food ends with the ability to compensate for the backup, jiggle, and surging that occurs as ends pass the sensor.



END GAP CONTROL

Maintain optimum gap at end downstackers through smooth, responsive control of the conveyor speed. Helps to prevent ends flipping over.



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