SENCON
SENSING • TESTING • GAUGING

Canline Sensors

The most widely used beverage and food can line sensors in the world, with a more than 40 year reputation for performance and durablity



These are not standard proximity switches, Sencon's can line sensors are specifically designed for can making. They have special features designed to cope with the harsh environment of todays canmaking lines that ensure a long lifetime of precise performance with less downtime and improved productivity.

- **Sensing fields specially optimized for canmaking**
- **Rugged stainless steel construction for maximum mechanical crush resistance**
- **Zero-drift stability - zero maintenance**
- **Static-safe - Immune from static discharge for uninterrupted processing**
- **Maximum performance on aluminium or steel cans**
- **Tamper proof or adjustable models available**
- **Supplied complete with T-bolts, brackets and adjustment tool (if required)**



Supplied with mounting kit



SPECIALLY DESIGNED FOR CANMAKING: Monitoring and controlling cans on a production line presents particular challenges which all-purpose sensors are not designed to meet. For example, the wide sensing fields of generic sensors makes them liable to 'lock on' to adjacent metal when they are flush mounted on a steel deck or fitted between close side-bar guides. Sencon sensors have carefully shaped sensing fields to prevent pre-loading.

WIDE RANGE OF APPLICATIONS: Compact and slimline designs enable them to be placed in a wide variety of locations on canmaking lines.

EASY CABLING OPTIONS: For easier maintenance, flexible conduit and quick disconnect cables can now can now be used on the same stainless steel hub design.

TAILORED SENSING FIELDS: Many generic sensors have twin lobes that leave a blind spot in the middle so they do not always see individual cans. The specially shaped sensing fields of Sencon sensors prevent these blind spots.

ROBUST AND LONG LASTING: The encapsulation and casing of Sencon sensors is specially made to cope with the harsh canmaking environment.

ADVANCED ELECTRONIC STABILITY: Internally designed for maximum electronic stability and the latest electronic components help to ensure optimum reliability and flexibility.

These include:

- **overload protection**
- **short circuit protection**
- **reverse polarity protection**
- **thermal stabilization**

CONTROL DOWN THE LINE WITH THE WORLD'S MOST WIDELY USED CAN MAKING SENSORS

Uniquely designed and precision made by Sencon, exclusively for the metal packaging industry

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Ordering Information

CODE	VARIBLE SENSITVITY	MOTION DETECTION	VARIABLE MOTION ON/OFF DELAY		TYPICAL SENSING RANGE – ALUMINUM CAN	TYPICAL SENSING RANGE – STEEL CAN	LED'S	CASE STYLE	OPERATING VOLTAGE	CABLE TYPE	OUTPUT TYPE
Can dia. 202/54mm to 305/84mm (in single file)											
9H-330-03					11.4 mm (0.45")	16.5 mm (0.65")	Output	A	11 - 30 VDC	Integral cable 3m (10ft)	sink(PNP) / source(NPN)
9H-335-03	●				19 mm (0.75")*	25.4 mm (1.00")*	Output	A	11 - 30 VDC	Integral cable 3m (10ft)	sink(PNP) / source(NPN)
9H-336-03	●			●	19 mm (0.75")*	25.4 mm (1.00")*	Output + Sense	A	11 - 30 VDC	Integral cable 3m (10ft)	sink(PNP) / source(NPN)
9H-337-03	●	●	●	●	11.4 mm (0.45")*	16.5 mm (0.65")*	Output + Sense	A	11 - 30 VDC	Integral cable 3m (10ft)	sink(PNP) / source(NPN)
11P-330-03					11.4 mm (0.45")	16.5 mm (0.65")	Output	A	11 - 30 VDC	Quick disconnect	sink(PNP) / source(NPN)
11P-330-05					16 mm (0.63")	20.3 mm (0.80")	Output	A	20 - 250 VAC (47 - 63Hz), or DC	Quick disconnect	AC: 2 wire
11P-335-03	●				19 mm (0.75")*	25.4 mm (1.00")*	Output	A	11 - 30 VDC	Quick disconnect	sink(PNP) / source(NPN)
11P-336-03	●			●	19 mm (0.75")*	25.4 mm (1.00")*	Output + Sense	A	11 - 30 VDC	Quick disconnect	sink(PNP) / source(NPN)
11P-337-03	●	●	●	●	11.4 mm (0.45")*	16.5 mm (0.65")*	Output + Sense	A	11 - 30 VDC	Quick disconnect	sink(PNP) / source(NPN)
All can diameters up to 607/163.5mm (for mass sensing). Can dia. 305/84mm to 607/163.5mm (in single file).											
9H-340-03					12.7 mm (0.50")	19 mm (0.75")	Output	B	11 - 30 VDC	Integral cable 3m (10ft)	sink(PNP) / source(NPN)
9H-345-03	●				26.7 mm (1.05")*	31.8 mm (1.25")*	Output	C	11 - 30 VDC	Integral cable 3m (10ft)	sink(PNP) / source(NPN)
9H-346-03	●			●	26.7 mm (1.05")*	31.8 mm (1.25")*	Output + Sense	C	11 - 30 VDC	Integral cable 3m (10ft)	sink(PNP) / source(NPN)
9H-347-03	●	●	●	●	25.7 mm (1.01")*	31.8 mm (1.25")*	Output + Sense	C	11 - 30 VDC	Integral cable 3m (10ft)	sink(PNP) / source(NPN)
11P-340-03					12.7 mm (0.50")	19 mm (0.75")	Output	B	11 - 30 VDC	Quick disconnect	sink(PNP) / source(NPN)
11P-340-05					12.7 mm (0.50")	19.1 mm (0.75")	Output	B	20 - 250 VAC (47 - 63Hz), or DC	Quick disconnect	AC: 2 wire
11P-341-03					24.1 mm (0.95")	32.4 mm (1.27")	Output	B	11 - 30 VDC	Quick disconnect	sink(PNP) / source(NPN)
11P-345-03	●				26.7 mm (1.05")*	31.8 mm (1.25")*	Output	C	11 - 30 VDC	Quick disconnect	sink(PNP) / source(NPN)
11P-346-03	●			●	26.7 mm (1.05")*	31.8 mm (1.25")*	Output + Sense	C	11 - 30 VDC	Quick disconnect	sink(PNP) / source(NPN)
11P-347-03	●	●	●	●	25.7 mm (1.01")*	31.8 mm (1.25")*	Output + Sense	C	11 - 30 VDC	Quick disconnect	sink(PNP) / source(NPN)
11-445-07	●				26.7 mm (1.05")*	31.8 mm (1.25")*	Output	C	11 - 30 VDC	Quick disconnect	sink(PNP) / source(NPN)

Please Note: 11 series sensors are not supplied with a cable. 11P sensors include an outer thread for attaching flexible conduit protection.
*Maximum sensing distance for units with variable sensitivity. The sensitivity of the 11-445 can be conveniently adjusted using the optional setup box.

Optional Extras

CODE	ITEM	DESCRIPTION
????????	Setup Box	Optional sensitivity adjuster for use with the 11-445-07
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

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

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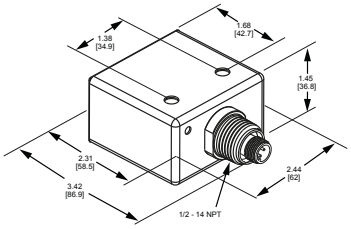
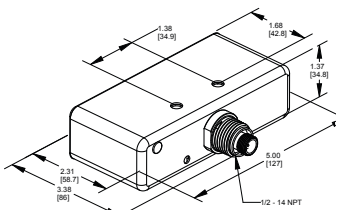
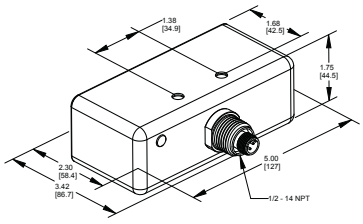
TECHNICAL SPECIFICATIONS

General specifications	
Operating Voltage	10.5 VDC to 30 VDC
Input Current	<15 mA plus load current
Reverse Polarity	Protected
EMI	Protected
Case Isolation	200 VDC
Response time switching 'ON'	<1 millisecond
Response time switching 'OFF'	<3 milliseconds
Storage Temperature	-40°C to 90°C (-40°F to 193°F)
Operating temperature	0°C to 70°C (32°F to 158°F)
Termination	M12 Micro (4 Pin)
LED Function	On - Outputs energized Green LED On - sensitivity adjustment

Physical attributes			
Case Material	Stainless Steel / PBT		
Environmental Protection	Sealed to withstand the effects of vibration, humidity, EMI, fungus, coolants, hydraulic fluids and dust.		
Case Style	**Please Note:** Case drawings show the 11P style connector. **A**  	**B**  	**C** 
Height	**36.8mm (1.45")**	**44.5mm (1.75")**	**34.8mm (1.37")**
Width	**62mm (2.44")**	**127mm (5.00")**	**127mm (5.00")**
Depth	**58.4mm (2.30")**	**58.4mm (2.30")**	**58.7mm (2.31")**
Weight	**570g (20 oz)**	**570g (20 oz)**	**570g (20 oz)**

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CANLINE SENSORS

The proven quality, accuracy, and ruggedness of Sencon's canline sensors remains unmatched. Special features give these sensors an almost indefinite life of precise performance, even in the harsh environment of a canmaking plant. Their stainless steel construction includes internal anti-crush columns, metal conduit hub, metal cable connector and full encapsulation. Sensing fields are specially designed to be flat and parallel to the sensor face to prevent locking on to the guide rails or the conveyor deck.

NEW 445 SENSOR: Our new 445 can line sensor includes several enhanced design features that increase both reliability and flexibility. The removal of the external potentiometer on the 445 makes the sensor tamper proof and reduces the risk of ingress by harmful contaminants. The sensitivity of the sensor can be adjusted using the optional set up box.



Flow control sensors

Maintaining the flow of a 2-piece canmaking production line requires precise coordination between machines and line controls to reduce backups and smooth out production flows. Sencon's **Area Mass** and **Linear Mass** sensors offer reliable, easy-to-install solutions that will help keep your line running at peak performance.



Can count sensors

Sencon can counting sensors provide precise monitoring of production and/or spoilage data with 100% confidence. Smart detection of the direction of flow means that cans are never counted twice even when they bounce, travel backwards, or shake in front of the sensor.

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**



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