

**Product Selection****Retroreflectors****6200A-6507****Corner Cube Retroreflector**

Description	Catalog Number
1.5 x 3.25 in, adhesive backed, one per package	6200A-6507

**Round Retroreflectors****6200A-6501**

Description	Catalog Number
3 in diameter, with mounting hole, two per package	6200A-6501
Bulk packaged version of above (ordered quantity will be bulk packaged)	6200AS6501
3 in diameter, with mounting hole, one per package	E51KR84

**6200A-6506**

3 in diameter, metal backed, with mounting hole, one per package	6200A-6506
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**6200A-6505**

2.18 in diameter, with mounting hole, one per package	6200A-6505
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**6200A-6502**

2.18 in diameter, adhesive backed, one per package	6200A-6502
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**6200A-6504**

1.25 in diameter, adhesive backed, one per package	6200A-6504
Bulk packaged version of above (ordered quantity will be sent bulk packaged)	6200AS6504
1.25 in diameter, no adhesive, one per package	E51KR32

**Retroreflective Tape****6202A-XXXX****Corner Cube Style** <sup>①</sup>

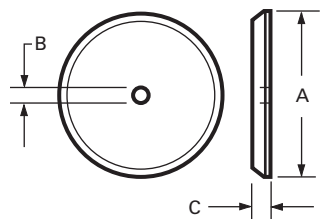
Description	Catalog Number
2 in wide, 1 piece, quantity is length in feet	6202A-XXXX

**Note**

- ① Although corner cube tape works with polarized reflex sensors, we recommend testing sensor and tape prior to installation.

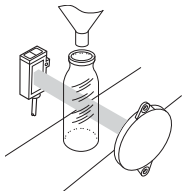
**Dimensions**

Approximate Dimensions in Inches (mm)

**Round Retroreflectors**

Catalog Number	Diameter A	Hole Size B	Thickness C
<b>6200A-6501</b>	3.30 (84)	0.20 (5)	0.35 (9)
<b>6200A-6502</b>	2.40 (61)	None	0.30 (7.5)
<b>6200A-6504</b>	1.30 (33)	None	0.25 (6)
<b>6200A-6505</b>	2.40 (61)	0.25 (6)	0.30 (7.5)
<b>6200A-6506</b>	3.30 (84)	0.20 (5)	0.30 (7.5)
<b>E51KR32</b>	1.25 (32)	None	0.35 (9)
<b>E51KR84</b>	3.30 (84)	0.20 (5)	0.35 (9)

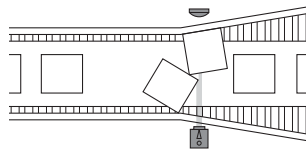
## Bottle Filling Detection



Description	Catalog Number
E65 clear object sensor	<b>E71-CON-XX</b> <b>E71-COP-XX</b>

A clear object sensor is used to sense the presence of bottles at a filling operation. The sensor offers high reliability in sensing clear bottles of different colors and thicknesses.

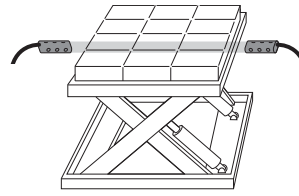
## Jam Detection



Description	Catalog Number
Enhanced 50 series reflex sensor with timer	<b>1451E-XXXX</b>
3 in dia. retroreflector	<b>6200A-6501</b>

A reflex control with a time delay module set for "delay dark" ignores momentary beam breaks. If the beam is blocked longer than the delay period, the output energizes to sound an alarm or stop the conveyor.

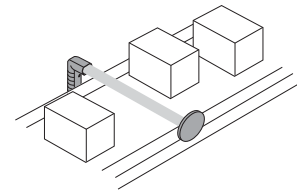
## Stack Height Control



Description	Catalog Number
Comet® series thru-beam source	<b>11100A</b>
Comet series thru-beam detector	<b>12100A</b>

A set of thru-beam sensors determines the height of a scissor lift. For example, when the control is set for "dark-to-light" energize, the lift rises after a layer has been removed and stops when the next layer breaks the beam again.

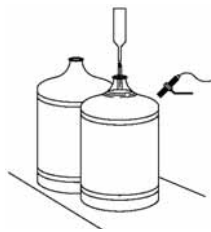
## Box Counting



Description	Catalog Number
Prism™ polarized reflex sensor	<b>14151R</b>
3 in dia. retroreflector	<b>6200A-6501</b>

A Prism right-angle reflex sensor detects boxes anywhere on a four foot wide conveyor. Interfacing the control with a programmable controller provides totals at specific time intervals. Polarized reflex optics prevent false triggering on shiny objects, while the high optical power burns through box dust and contamination.

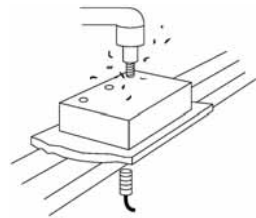
## Process Control



Description	Catalog Number
Tubular capacitive proximity sensor	<b>E53 Product Family</b>

A capacitive proximity sensor used to verify fill level of bottled water on a filling process line.

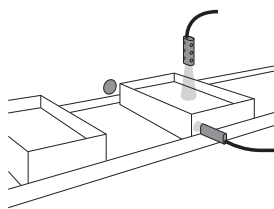
## Conveyor System Control



Description	Catalog Number
Tubular inductive proximity sensor	<b>E57 product family or iProx</b>

A tubular inductive proximity sensor is used to detect the presence of metal carriers holding parts to be machined.

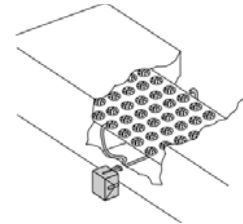
## Carton Fill-Level Detection



Description	Catalog Number
Comet visible-beam reflex sensor	<b>14102A</b>
Comet 9 in Perfect Prox sensor	<b>13103A</b>
3 in dia. retroreflector	<b>6200A-6501</b>
Adjustable background suppression	<b>E75</b>

Two sensors work together to inspect the fill level in cartons on a conveyor. A reflex sensor senses the position of the carton and energizes the Perfect Prox or background suppression sensor located over the contents. If the Perfect Prox sensor does not "see" the fill level, the carton does not pass inspection.

## Cookie Motion Detection

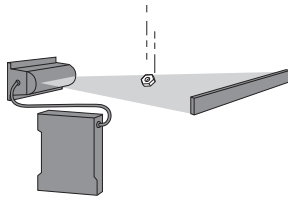


Description	Catalog Number
Fiber optic sensor	<b>1550E-85XX</b>
Fiber optic thru-beam cable (two required)	<b>E51KE823</b>

High temperature environments are accommodated by the use of fiber optics. Here conveyor motion in a 450°F (232°C) cookie oven is detected. If the motion stops, the one-shot logic module detects light or dark for too long, and the output device shuts the oven down.

For assistance with these or other applications, call us at 1-800-426-9184.

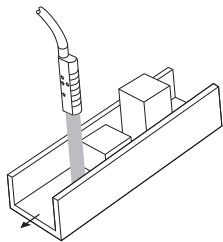
## Small Parts Detection



Description	Catalog Number
70 series high power control unit	<b>8171B</b>
Low contrast logic module	<b>8215A</b>
70 series reflex curtain-of-light sensor	<b>1471A</b>
Strip retroreflector	<b>6210A</b>
Triac output relay or other selection	<b>8572A</b>

Small objects moving through a "curtain-of-light" are counted by detecting a change in reflected light. A low contrast logic module inside the control unit responds to slight but abrupt signal variations while ignoring slow changes such as dust build-up.

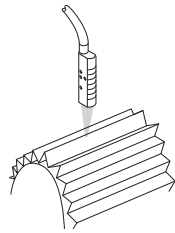
## Parts Detection



Description	Catalog Number
Comet series 4 in Perfect Prox sensor	<b>13101A</b>

A four inch Perfect Prox sensor detects parts of various heights from 0.5 to 3 inches passing through a channel, while ignoring the channel bottom.

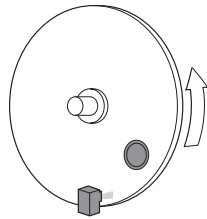
## Filter Paper Length Control



Description	Catalog Number
Comet focused diffuse reflective sensor	<b>13102A</b>

A focused diffuse reflective sensor interfaces with a programmable controller to measure a specific length of corrugated automotive filter paper. The control detects the presence or absence of a corrugation. When a predetermined number of corrugations has been detected, the programmable controller directs a shear to cut the paper.

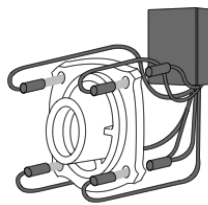
## Over/Underspeed Control



Description	Catalog Number
50 series reflex sensor	<b>1450B</b>
Motion detection logic module	<b>8253A</b>
Solid-state switch output device	<b>8562B</b>
3 in diameter retroreflector	<b>6200A-6501</b>

A reflex sensor with a motion detection module counts the revolutions of the wheel. Speed is controlled by a programmable controller. Provides timing ranges from 2.4 to 12,000 counts per minute.

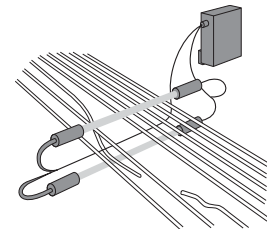
## Multi-Hole Casting Inspection



Description	Catalog Number
70 series modular control unit (four required)	<b>8771A</b>
70 series 35 ft thru-beam source (four required)	<b>1173A-300</b>
70 series 35 ft thru-beam detector (four required)	<b>1273A-300</b>
Panel mount socket for control unit (four required)	<b>8905A</b>

Remote sensors inspect for the presence of holes in a metal casting. Because each hole has its own inspection system, accurate defect information is recorded. Rugged sensor housing and extremely high signal strength handle dirt and grease with minimum maintenance. Using the modular control unit allows for dense packaging in small enclosures.

## Broken Thread Detection



Description	Catalog Number
70 series high power control unit	<b>8171B</b>
Low contrast logic module	<b>8215A</b>
70 series 375 ft thru-beam source (two required)	<b>1173A-100</b>
70 series 375 ft thru-beam detector (two required)	<b>1273A-100</b>
DPDT relay	<b>8530A</b>
Mounting brackets	<b>6142A</b>

A pair of remote thru-beam sensors scan over and under multiple strands of thread. If a thread breaks and passes through one of the beams, the low-contrast logic module detects the sudden change in signal strength and energizes the output. Because this logic module does not react to slow changes in signal strength, it can operate in a dusty environment with little maintenance.

For assistance with these or other applications, call us at 1-800-426-9184.