Ultrasonic Obstacle Detection

Sensor systems to inform driver of obstacles within close proximity, whether moving or stationary. Perfect for road going commercial vehicles regularly operating in confined spaces or manoeuvring at low speeds.

Which system is for you?

**Sidescan** - 4 sensor system fitted to side of vehicle increasing safety when turning or low speed manoeuvring. Particularly relevant for near side blind spot where cyclists or pedestrians can otherwise go undetected.

**Backscan** - 4 sensor system fitted to rear of vehicle as an invaluable aid to safe reversing. Gives greater protection to pedestrians and workers, whilst minimising damage to vehicle and other objects.

**Cornerscan** - 3 sensor system fitted to near side corner of vehicle cab detects objects in front near side blind spot. Minimises the risk of damage to the vehicle cab whilst manoeuvring at low speed.

**Frontscan** - 4 sensor system fitted to front of vehicle improving safety when manoeuvring at low speed. Particularly relevant for front blind spot on high cabs where low objects or pedestrians can be hidden.

**Stepscan** - 2 sensor system fitted to near side cab step giving awareness to the driver of objects to the side when turning and reversing. Minimises the risk of damage to the vehicle cab from otherwise unseen objects.
Ultrasonic obstacle detection

Model Part No: 3744

BACKSCAN® ULTRASONIC DETECTION SYSTEM

BS-4000W - Rear reversing sensor system

- 4 sensor system
- 12-24Vdc
- 2.5m detection range - outer sensors 2.5m/0.6m (selectable via dip switch)
- Graduated visual and audible distance warning display
- Underslung and flush-mount fixings included
- 50cm compensation range for sensors fitted inboard of vehicle rear (selectable via dip switch)
- 2 year warranty

Contents
- 4 x sensors
- Visual and audible display
- 4 x 0° flush mount fixings
- 4 x 11° flush mount fixings
- 4 x underslung fixings
- Waterproof control box
- 15m display cable
- 4 x 2.5m sensor cables

Features
- Obstacles detected in under 200 milliseconds
- Environment Learning Mode prevents false alarms from low-hangs and other ancillary equipment that intrudes in the first 100cm of the detection zone
- Self-diagnostic function
- 1 x Trigger output

Durability & Standards
- Operating temperature: -30 to +80°C
- Waterproof sensors to IP68
- Waterproof control box to IP69K
- CE marked
- EMC approved: E

Power
- Power consumption: 2.4 Watts
- Current: 200mA

Optional Extra

UDS-RELAY-24 Trigger-out diode protected relay 24Vdc

UDS-RELAY-12 Trigger-out diode protected relay 12Vdc

Required Additions for Articulated Vehicles

SK-15-04 Truck/trailer camera/sensor cable kit - see p29 3997
SK-UDS-05 Truck/trailer sensor only cable kit 4219
UDS-10BC 10m Buzzer/display cable 3716

CORNERSCAN® ULTRASONIC DETECTION SYSTEM

CS-3000 - Corner sensor system 3712

- 3 sensor system
- 12-24Vdc
- 0.6/1.0m detection range - (selectable via dip switch)
- Audible distance warning
- Flush-mount
- 2 levels of sensitivity - (selectable via dip switch)
- 2 year warranty

Contents
- 3 x sensors
- Buzzer
- 3 x 11° flush mount fixings
- 3 x 18° flush mount fixings
- 3 x 26° flush mount fixings
- Waterproof control box
- 2.5m buzzer cable
- 3 x 2.5m sensor cables

Features
- Obstacles detected in under 200 milliseconds
- Environment Learning Mode prevents false alarms from ancillary equipment that intrudes in the first 100cm of the detection zone
- Self-diagnostic function

Durability & Standards
- Operating temperature: -30 to +80°C
- Waterproof sensors to IP68
- Waterproof control box to IP69K
- CE marked
- EMC approved: E

Power
- Power consumption: 2.4 Watts
- Current: 200mA

Recommended Extra

LS-60-A Low speed trigger module (enables sensors below designated speed) 4851
## SIDESCAN® ULTRASONIC DETECTION SYSTEM

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No:</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS-4000W -</td>
<td>3711</td>
</tr>
<tr>
<td>SS-4000W-000</td>
<td>4321</td>
</tr>
</tbody>
</table>

**Side sensor system**
- Side sensor system low speed trigger module and turn indicator sensor kit
  - Includes LS-60-A low speed trigger module and TS-001ECU turn indicator sensor

**Contents**
- 4 x sensors
- Buzzer
- 4 x 0" flush mount fixings
- 4 x 11" flush mount fixings
- 4 x underslung fixings
- Waterproof control box
- 10m buzzer cable
- 4 x 4.5m sensor cables
- 2 x 2.5m extension cables

**Features**
- Obstacles detected in under 200 milliseconds
- Environment Learning Mode prevents false alarms from ancillary equipment that intrudes in the first 100cm of the detection zone
- Self-diagnostic function

**Durability & Standards**
- Operating temperature: -30 to +80ºC
- Waterproof sensors to IP68
- Waterproof control box to IP69K
- CE marked
- EMC approved: E

**Power**
- Power consumption: 2.4 Watts
- Current: 200mA

### ADDITIONS FOR ARTICULATED VEHICLES

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Part No:</th>
</tr>
</thead>
<tbody>
<tr>
<td>SK-15-04</td>
<td>Truck/trailer camera/sensor cable kit - see p29</td>
<td>3997</td>
</tr>
<tr>
<td>SK-UDS-05</td>
<td>Truck/trailer sensor only cable (required)</td>
<td>4219</td>
</tr>
<tr>
<td>UDS-10BC</td>
<td>10m display cable (required)</td>
<td>3716</td>
</tr>
<tr>
<td>SS-4000W</td>
<td>Additional Sidescan sensor system for cab (optional)</td>
<td>3711</td>
</tr>
</tbody>
</table>

### RECOMMENDED EXTRA

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Part No:</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS-60-A</td>
<td>Low speed trigger module enables sensors below designated speed</td>
<td>4851</td>
</tr>
<tr>
<td>TS-001ECU</td>
<td>Turn indicator trigger for system activation</td>
<td>1362</td>
</tr>
</tbody>
</table>

### OPTIONAL EXTRA

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Part No:</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS-BC-08</td>
<td>Backchat speaking alarm with side turn warning for cyclists/pedestrians</td>
<td>1334</td>
</tr>
<tr>
<td></td>
<td>Note: TS-001ECU Turn indicator trigger is required</td>
<td></td>
</tr>
<tr>
<td>TCO-47-01</td>
<td>Latched auto-reset Backalarm cut-out (dash mount)</td>
<td>4752</td>
</tr>
</tbody>
</table>

### EXTENSION CABLES

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Part No:</th>
</tr>
</thead>
<tbody>
<tr>
<td>UDS-2.5BC</td>
<td>Buzzer/display extension cable 2.5m</td>
<td>3717</td>
</tr>
<tr>
<td>UDS-10BC</td>
<td>Buzzer/display extension cable 10m</td>
<td>3716</td>
</tr>
<tr>
<td>UDS-15BC</td>
<td>Buzzer/display extension cable 15m</td>
<td>3746</td>
</tr>
<tr>
<td>UDS-2.5SC</td>
<td>Sensor extension cable 2.5m</td>
<td>3719</td>
</tr>
<tr>
<td>UDS-4.5SC</td>
<td>Sensor extension cable 4.5m</td>
<td>3720</td>
</tr>
</tbody>
</table>
## Ultrasonic obstacle detection

### FRONTSCAN® ULTRASONIC DETECTION SYSTEM

**Model:**

**FS-4000W - Front sensor system**

<table>
<thead>
<tr>
<th>Contents</th>
<th>Part No:</th>
</tr>
</thead>
<tbody>
<tr>
<td>- 4 x sensors</td>
<td>3747</td>
</tr>
<tr>
<td>- Buzzer</td>
<td></td>
</tr>
<tr>
<td>- 12-24Vdc</td>
<td></td>
</tr>
<tr>
<td>- 2.0m/1.0m detection range - outer sensors can be reduced to 0.6m (selectable via dip switches)</td>
<td></td>
</tr>
<tr>
<td>- Audible distance warning</td>
<td></td>
</tr>
<tr>
<td>- Flush-mount</td>
<td></td>
</tr>
<tr>
<td>- 2 year warranty</td>
<td></td>
</tr>
</tbody>
</table>

**Features**

- Obstacles detected in under 200 milliseconds
- Environment Learning Mode prevents false alarms from low-hooks and other ancillary equipment that intrudes in the first 100cm of the detection zone
- Self-diagnostic function
- 1 x Trigger output

**Durability & Standards**

- Operating temperature: -30 to +80°C
- Waterproof sensors to IP68
- Waterproof control box to IP69K
- CE marked
- EMC approved: E

**Power**

- Power consumption: 2.4 Watts
- Current: 200mA

**Recommended Extra**

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Part No:</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS-60-A</td>
<td>Low speed trigger module (enables sensors below designated speed)</td>
<td>4851</td>
</tr>
</tbody>
</table>

### OPTIONAL EXTRA

- **UDS-RELAY-24** Trigger-out diode protected relay 24Vdc
- **UDS-RELAY-12** Trigger-out diode protected relay 12Vdc

### STEPSCAN™ ULTRASONIC DETECTION SYSTEM

**Model:**

**ST-2000 - Step sensor system**

**ST-2000-20-A - Step sensor system and low speed trigger module**

- Includes UDS-4.5SC 4.5m extension cable

<table>
<thead>
<tr>
<th>Contents</th>
<th>Part No:</th>
</tr>
</thead>
<tbody>
<tr>
<td>- 2 x sensors</td>
<td>3742</td>
</tr>
<tr>
<td>- Buzzer</td>
<td>4231</td>
</tr>
<tr>
<td>- 12-24Vdc</td>
<td></td>
</tr>
<tr>
<td>- 0.6/1.0m detection range - (selectable via dip switch)</td>
<td></td>
</tr>
<tr>
<td>- Audible distance warning</td>
<td></td>
</tr>
<tr>
<td>- Flush-mount</td>
<td></td>
</tr>
<tr>
<td>- 2 levels of sensitivity - (selectable via dip switch)</td>
<td></td>
</tr>
<tr>
<td>- 2 year warranty</td>
<td></td>
</tr>
</tbody>
</table>

**Features**

- Obstacles detected in under 200 milliseconds
- Environment Learning Mode prevents false alarms from ancillary equipment that intrudes in the first 100cm of the detection zone
- Self-diagnostic function

**Durability & Standards**

- Operating temperature: -30 to +80°C
- Waterproof sensors to IP68
- Waterproof control box to IP69K
- CE marked
- EMC approved: E

**Power**

- Power consumption: 2.4 Watts
- Current: 200mA

**Recommended Extra**

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Part No:</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS-60-A</td>
<td>Low speed trigger module (enables sensors below designated speed)</td>
<td>4851</td>
</tr>
</tbody>
</table>