

# BEAM DETECTOR SHIELDS

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## Description

The air shield is actually a column of air generated at the face of the beam or prism, so as to prevent the surface from being contaminated by product.

The column of air is required to propagate to at least six inches from the front of the unit so that the wind or air turbulence does not dump product into the shield face.

## Application

For large bulk warehouses that have product being put in and then stored for a period of time, the air shield gives the owner/occupier the advantage of early smoke detection, and early fire brigade response, without the damage that can be caused by the length of time before a sprinkler system operates and



the damage caused to product with the introduction of water.

The use of beam smoke detection in this type of application allows the detection of the fire at an early stage when the fire can be easily extinguished with minimal damage to product.

With the air shield in place, the level of maintenance at the beam detector face is reduced, thereby saving ongoing maintenance costs.



#### **Why develop an air shield?**

We saw the need for early detection in environments that were both dusty and corrosive.

There appeared to be no alternative to sprinkler systems, which some of our customers found to be in areas that were prone to smouldering fires.

Some of our customers bulk storage facilities were mainly dusty for the period of time that bulk commodities were being fed into the storage facility.

#### **How successful has the air shield been?**

To date it has been very successful, with the beam detector face staying clean after numerous infeeding of product.

For details and availability of the air shields contact Trevor Voevodin.