

Heavy Duty Back Spillage Detector



Description

The Heavy Duty Back Spillage Detector is designed to prevent spillage of conveyed mineral around transfer points and chutes. The complete transducer comprises of two similar units, one mounted on each side of the conveyor at a point where spillage is likely to occur.

The unit is designed to be mounted such that the centre line of the paddle is in line with the edge of the conveyor belt. When the paddle is depressed due to spillage of material, a rotary switch operates within the unit.

Switch Rating

The Heavy Duty Spillage Detector is fitted with a rotary switch equipped with one normally open and one normally closed contact.

The contact ratings are as follows:

16 Amps	250 volts ac	3 kw
1 Amp	125 volts dc	

Cable entries

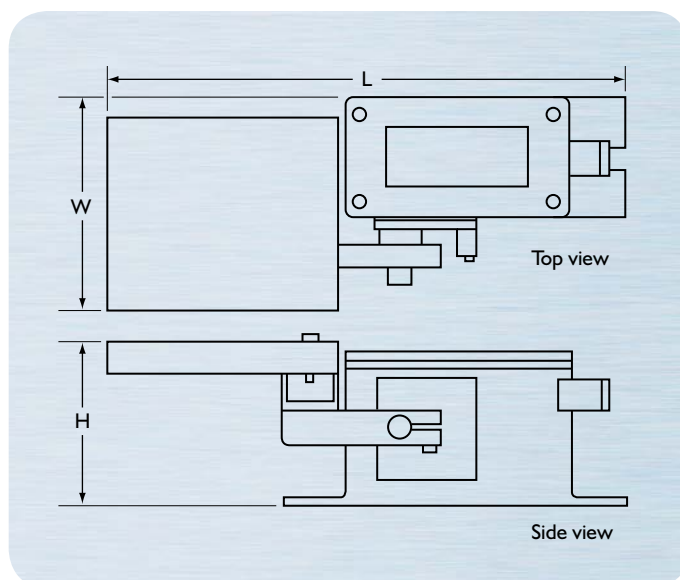
The unit is supplied with one CM 20 20mm cable gland and one 20mm tapped blanked off entry.

Installation in Hazardous Atmospheres

When installing in GpI hazardous atmospheres (methane in coal mines) this equipment is considered as "simple apparatus" as defined in EN60079-11 and must only be supplied with electrical power from an appropriately certified Intrinsically Safe source.

Dimensions

The dimensions of the Heavy Duty Spillage Detector are as follows:



Ordering Details

Ordering details for the Heavy Duty Back Spillage unit are as follows:

Type	Code Number (per pair)	Dimensions (mm)			Weight (kg)
		L	W	H	
Standard type	B11100303/FP	380	152	114	9kg (per pair)



Davis Derby Limited

Davis Derby is a long established designer and manufacturer of intrinsically safe electronics and explosion-proof electrical equipment. All our equipment is designed for use in underground coalmining and other hazardous or demanding atmospheres. Davis Derby is also a leading provider of off-road vehicle driver access control and fleet management information systems. Our products are in service across the world in a variety of mining and arduous environments.

Davis Derby Limited comprises of 4 core strategic business units:



StedFAST™

Mines, quarries, steelworks, power stations and processing plants are demanding environments. Hazards are many and varied and nowhere more so than where bulk materials are being conveyed in the presence of personnel. Incidents involving product spillage, misaligned or torn conveyor belts and other mechanical malfunctions can cause injury to staff as well as costly downtime, damage to machinery and loss of revenue.



MineWATCH™

Mine productivity and personal safety have been priorities at Davis Derby for more than two decades. In this time we have led the way in product development, harnessing cutting-edge technologies and the potential of microprocessor based outstations.

Bespoke

With a long history of developing unrivalled safety, communication and monitoring products for hazardous, explosive and arduous environments, Davis Derby is uniquely positioned to offer a bespoke design and manufacturing service for industrial applications. Our engineers are also specialists in adapting existing technology to be suitable for operation in hazardous gas and dusty atmospheres and obtaining the appropriate certification to ATEX, IECEx, UL and CSA standards.



TruckLOG™

Designed with demanding materials handling environments in mind, the Davis Derby TruckLOG suite of modules tell you everything you need to know about who's driving your trucks – and how. It puts you firmly in control of driver access, shock reporting and investigation, driver training needs and vehicle service and maintenance schedules.