

## DIGIMATIC DML3 ATEX Approved Level Controller



*A first in the UK?  
The DML3 has full  
ATEX approval for  
use in explosive  
dust hazard areas.  
Ideal for use in  
grain/flour silo's or  
any level application  
where dust may be  
present. Available  
for 110/230V ac or  
24V dc supplies.*

The forthcoming ATEX legislation has created a need for a certified level control for use in materials which can present a dust explosion risk. Typical materials are wood waste, grain, flour and many other common substances.

The new Digimatic **DML3** is believed to be the first probe available in the UK to meet the ATEX directive and conforms to  $\text{Ex} \text{II} \text{1D T80}^\circ\text{C Tamb } -20^\circ\text{C to } +50^\circ\text{C}$  and replaces the existing Zone 20.

Customers familiar with the Digimatic **DML2** unit will find all the usual features and probe options, allowing the same easy installation and commissioning.

Automatic calibration is carried out simply by pressing one button with the probe uncovered and another

button when covered. The units can be re-calibrated as required. The same buttons can also be used to manually raise and lower the sensitivity.

A removable calibration link is fitted to prevent accidental or unauthorised recalibration.

The **DML3** incorporates a 'power shield' to overcome the effects of sticky or viscous materials adhering to the probe, allowing it to respond only to a genuine covered condition. A range of probe rods is available in solid stainless steel or wire rope in lengths up to 10 metres.

The **DML3** is suitable for top or side entry use and is available for use on 110/230V or 24V dc supplies.

## GRAIN FLOW SENSOR FMU1

Reliable detection of flowing grain & granular products in pipework etc. has, until now, been difficult & expensive. The **FMU1** overcomes the problems often encountered with this type of application & eliminates the need for mounting within the ducting. Intelligent micro-processor control within the **FMU1** allows the unit to 'learn' the difference between normally generated ambient noise and to distinguish this from the noise generated by flowing grain. This results in a reliable detected signal, with minimal false

tripping. The unit is easy and simple to install, requiring only to be mounted on the outside of the pipe or duct through which the material is flowing. An internal terminal block allows cable termination within the IP65 enclosure.

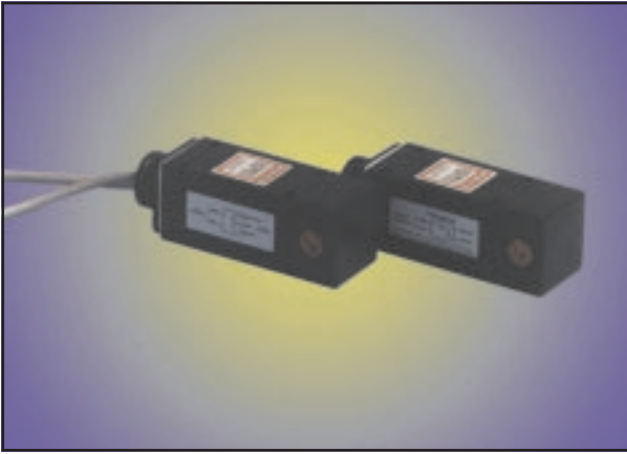
*Grain flow, a simple answer to a difficult problem.*



# News

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## UNISWITCH UD1DR - ID/E1DO Proximity Sensors



*Limit switch package styling, multi-voltage operation, rugged construction and a choice of opto-isolated transistor or relay outputs allows the Uniswitch sensors to be used in the most arduous industrial applications.*

The **Uniswitch** range of proximity sensors are limit switch style units ideally suited for replacing mechanical limit switches or for detecting rotating or reciprocating machinery, or detecting the presence of a metal target.

The units require no contact with the machinery being detected, sensing a target mounted on the shaft or similar.

The **UD1DR** sensor operates from a supply of 12-240V dc/24-240V ac and provides a changeover relay output.

The **ID/E1DO** sensor operates from a supply of 10-30V dc and has a fully opto-isolated, protected transistor output which can be connected in npn or pnp mode.

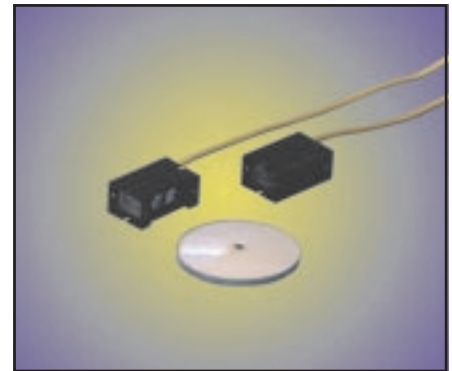
Maximum operating range for both sensors is 15mm using a 30mm diameter ferrous target.

The **Uniswitch** proximity sensors are fully encapsulated for use in most arduous conditions and are supplied with multicore cable & 20mm metal fitting for conduit connection.

## MULTIFIX 'G' Series

A range of low cost, self contained photoelectric sensors, available in retro-reflex and reflex versions. The sensors work with any supply voltage from 10 to 30V dc and provide a fully opto-isolated transistor output configurable for npn or pnp connection and are suitable for direct input into PLC's. The retro-reflex sensor, **PD3GO**, will work up to a range of 4 metres with a standard 85mm dia. reflector disc, The reflex version, **PE3GO**, will work typically up to a maximum distance of 500mm off matt white paper.

*Miniature design and multi-hole fixing facility for easy installation.*



Designed as an easy to install, slimline array, the **Multiscan** sensor is both versatile and adaptive. The unit is available in any length from 100mm to 3M with beam pitches from 3mm upwards, and a maximum operating range of up to 4 metres. Working voltage is 10 to 30V dc and with an assortment of output configurations, the **Multiscan** is an ideal sensor for any application requiring detection within an area.

The unit can be supplied with any of the following output types:

- a) Switched. The output can be set to switch at any point along the length of the array.
- b) Analogue. 0-1, 4-20mA, 0-10V dc along the length of the array. The output swing can be set from bottom to top, or top to bottom of the array.
- c) Digital. RS232/ RS485 protocol to suit the application requirements.

## MULTISCAN MSA1 Series

Where required, the output of the **Multiscan** can be supplied as npn or pnp configuration or 5V TTL. The units are built in robust, custom designed black anodised aluminium extrusions and are supplied with rear, adjustable

mounting bolts. The sensor heads are mounted behind 3mm perspex viewing windows and all units are supplied with 2 metres of interconnecting cable which can be extended to virtually any length using standard screened cable.

*Detecting an item within a defined area is now a simple task with the Multiscan array system.*

