

1K3-series Safety Lightcurtains

To further enhance control functionality and flexibility of use for the **1K3-series** range of safety light curtains Smartscan has introduced a range of Multifunction Safety Units. The units provide relay output with a number of control options to suit specific machinery safeguarding applications.

Please contact us for more information on our range of Multifunction Safety Relay Units.



Smartscan **1K3-series** light curtains have been type examined by a EUROPEAN NOTIFIED BODY, thus ensuring full compliance with all relevant Essential Health and Safety Requirements (EHSRs) of the European Machinery Directive.

Together with our ISO 9001:2000 certification full confidence can be placed in the quality, reliability and above all the safety of Smartscan light curtains and equipment.



Report No. 288/4093670



Certificate No: 091105-A



Certificate No: CC/TCF/00012



Certificate No: FM27829

DISTRIBUTOR



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Machinery Safeguarding Applications Include:

- Robots
 - Packaging Machines
 - Special Purpose Equipment
 - Process Machinery
 - Injection Moulding Machines
 - Transfer Lines
 - Automated Warehouses
 - Textile Machinery
 - Electronic Component Assembly Lines
- AND MANY OTHERS



- Suitable for Most Machine Safeguarding Applications
- Simple Installation & Alignment
- Wide Range of Models
- 2 Year Manufacturers Warranty
- European Type Examination to the Machinery Directive Compliance:
- EN 61496-1 & IEC 61496-2 – Type 2
- Safety Classification EN ISO 13849-1 PLd

Features

- Slim-line enclosures
- Up to 10 metres scanning range
- No range setting required
- Continuously self testing system
- Fast response time
- Diagnostic indicators
- Dual channel, fail-safe electronic outputs (control reliable)
- All connecting cables included
- Two part system
- Waterproof enclosures
- Flexible mounting options
- No cables between 'TX' & 'RX'

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Specification

Number of beams	2 - 48
Object detection	30mm, 40mm plus 2, 3 and 4 beam perimeter systems
Detection zone	180mm to 1240mm
Range	0.5 – 10m (model dependent)
Light type	Infra-Red 880nm
Response time	40ms
Operating temperature	0°C to +50°C
Light curtain enclosure	IP65 (HxWxD) Hx28x41mm
Status indicators	TX - Yellow (flashing) TX 'OK' RX - Red (steady) OSSDs 'OFF' - Red (flashing) system lockout RX - Green OSSDs 'ON' RX - Yellow (flashing) TX to RX communications established RX - Yellow (steady) incorrectly aligned or detection zone is 'blocked'
Power supply requirement	24V DC 1.5A ±20% reg
Current consumption	200mA transmitter + 200mA receiver (OSSD LOAD ADDITIONAL)
Light curtain connection	5m cables connected to both TX & RX units
Finish	Polyester powder coated (yellow)
Classification	BS EN 61496-1 Type 2 BS IEC 61496-2 Type 2 EN ISO 13849-1 PLd
Warranty	Two Years
OUTPUTS	
Safety outputs	2 x electronic switches, each rated at
OSSD1 & OSSD2	24V DC, 500mA - ON = 24V DC, OFF = OV standing current (min 20mA)