

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 (EHSR's) 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)