

Multifunction Safety Units

The T4 Series can be used with our multifunction safety units to provide a safety relay output option.

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



Product Conformity

Smartsan T4 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 98/37/EC.

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



Report No. 288/48/15257



Certificate No: 200206-A



Certificate No: FM27829

DISTRIBUTOR



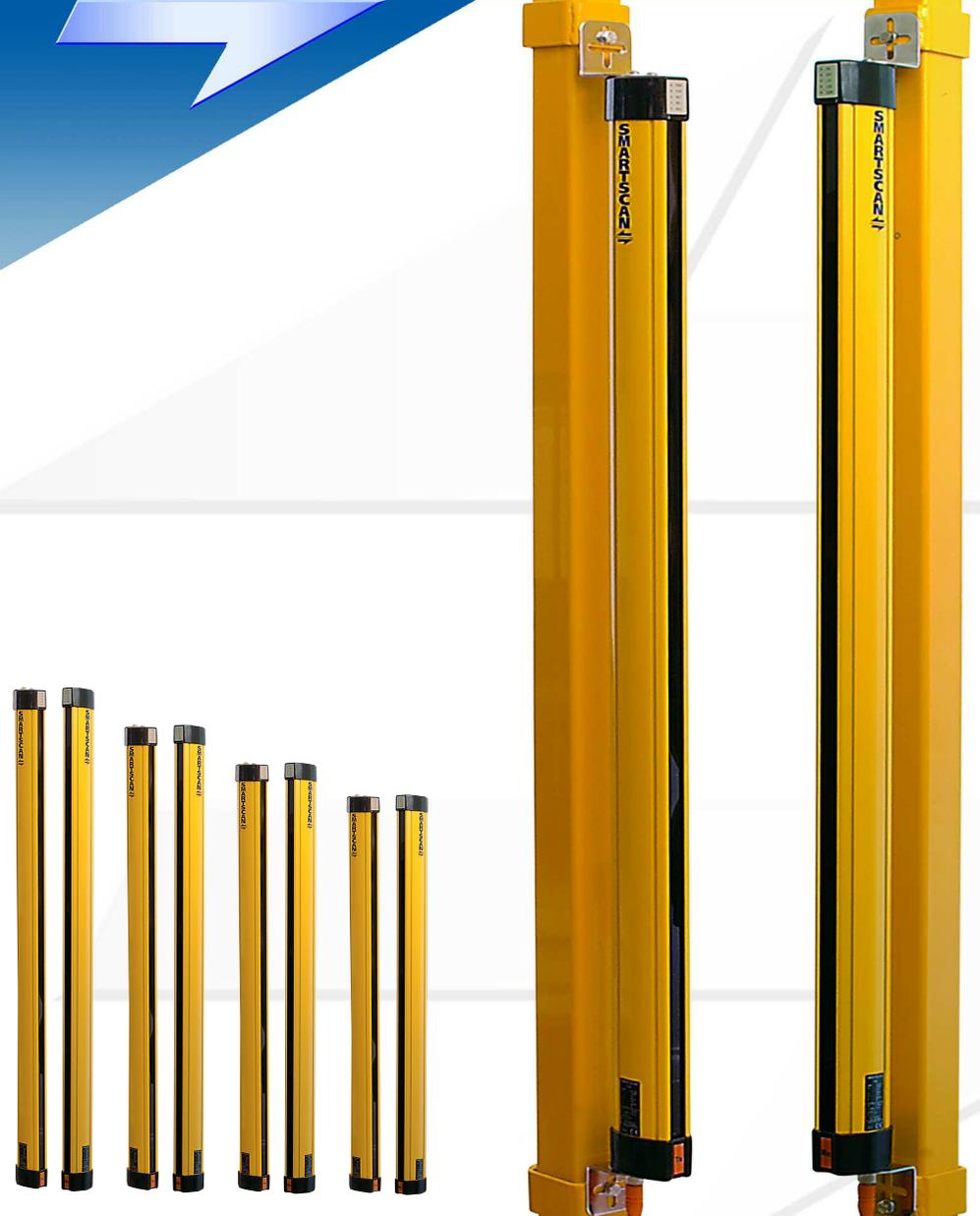
Tel +31(0)85-27 36 750
Web www.inrato.com

Ref: SS-T401 / NOVEMBER 2007

Pywell Road · Corby · Northants · NN17 5XJ
Tel: +44 (0) 1536 401313 Fax: +44 (0) 1536 268954
Email: sales@smartsan.com

www.smartsan.com

SMARTSCAN MACHINERY SAFETY SYSTEMS



T4 SERIES - SAFETY LIGHT CURTAINS

SMARTSCAN T4 SERIES LIGHT CURTAINS

T4 Series safety light curtains – a powerful combination of full feature technology and heavy-duty enclosures – solutions for all your ‘high risk’ machine safety applications.

- ▶ Safety classification EN 954-1 Category 4, EN 61508 SIL 3
- ▶ Compliance EN 61496-1 & IEC 61496-2 Type 4
- ▶ European Type examined to the Machinery Directive
- ▶ Robust twin chamber housing and IP 65 rating for harsh wet environments
- ▶ Suitable for ‘High Risk’ Applications
- ▶ Wide range of models
- ▶ Simple installation and alignment

Machinery Safeguarding Applications Include:

- Press brakes
- Power presses
- Robotic Work Cells
- Process Lines
- Wood Working Machines
- Guillotines
- Metal Folding Machines



Features

- ▶ Muting & mute timer setting
- ▶ Dynamic floating blanking
- ▶ Fixed blanking (Individual beam selection)
- ▶ Dual channel, fail-safe electronic outputs (control reliable)
- ▶ Up to 20m scanning range
- ▶ Safety monitoring (EDM)
- ▶ Automatic / Manual Restart Modes
- ▶ Flexible mounting options
- ▶ Diagnostic & Status Indication
- ▶ EN 61508 SIL 3
- ▶ RS232 link for multiple device connection
- ▶ Selectable heater for low temperature environments
- ▶ 2 auxiliary (non-safety) outputs

Specification

Number of beams	1 - 128
Detection zone	141 – 2391 mm
Range	Perimeter guard - 20 metres 14 mm guard - 5 metres 30 mm guard - 10 metres 40 mm guard - 15 metres
Light type	IR 880nm
Response time	20ms
Operating temperature	0°C to +50°C Heater Off -30°C to +40°C Heater On
Light curtain enclosure	IP65
Power supply requirement	24V DC 2A ±10%
Current consumption	500mA maximum
Light curtain Connectors	M12 - IP65
Finish	Aluminium, chromate treated, yellow polyester powder coated
Classification	BS EN 61496-1 Type 4 BS IEC 61496-2 Type 4 BS EN 954-1 Category 4 BS EN 61508 SIL 3
Warranty	1 Year
OUTPUTS	
Safety Outputs	Electronic 50 mA
OSSD1 & OSSD2	
Status Output	Electronic 50 mA
Mute Output	Electronic 50 mA
Status and Mute Indication	Status & Condition LEDs on Light curtain
INPUTS	
Safety Monitoring (EDM)	ON = +24V DC
Activate	Combined restart and override. ON = +24V DC
Mode Select	Reset Green = Reset (+) switch Yellow = EDM (+) Auto Reset Green = L+ Yellow = L-