

TRITON CONTROLS

CLEANSAN

TOUCHLESS PUSH PLATE

■ Cleanscan - sheer brilliance

Our active infrared detectors and opto-electronic sensors are supplied with a colour **info sheet** that contains the necessary information and details on their operating methods and various selection criteria. This info sheet is included with our general documentation at the beginning of the chapter entitled "Active Infrared Detectors". The info sheets can also be ordered separately for training purposes.

■ Cleanscan - functional description

Unlike conventional push plates, *Cleanscan* is a touchless push plate and operates without contact with human hands.

The stringent hygiene conditions required in certain areas (hospitals, operating theatres etc.) can be fulfilled as a result. The optimum system design (concealed mounting in single housing) enables the push plate to be installed both quickly and easily. Furthermore, the *Cleanscan* can also be mounted using standard surface-mounting housings.

The optimised static evaluation principle allows objects to be detected correctly irrespective of whether they are moving or not.

Two different scanning ranges enable the push plate to be matched to the relevant ambient conditions.

Cleanscan has a small black/white difference in the short range (50 - 200 mm). Objects are detected at the same distance, irrespective of their colour.

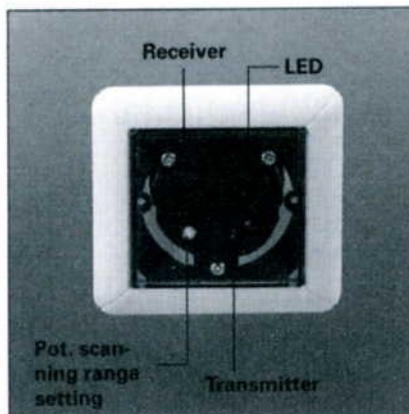
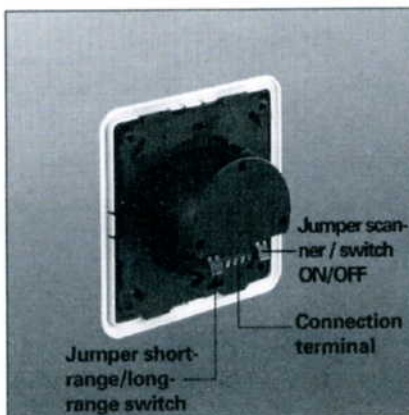
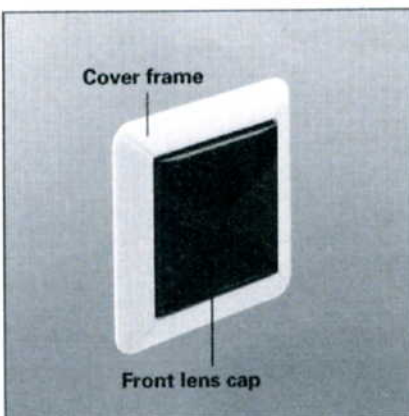
■ *Cleanscan* Switch (ON/OFF)

- The output switches when an object is detected and remains in this state. The relay changes again the next time an object is detected.

■ *Cleanscan* Scanner

- The output switches when an object is detected and remains in this state until it is no longer detected.

■ System design



■ Operating mode

■ Background suppression

The background is «perceived» but not evaluated (ignored). As switching signal a reflex signal is required from an object within the set scanning range.

- no background required
- independent of reflectance value of the background (with short-range switch)

■ Switching mode

■ Light switching

The output of an active infrared detector is switched (conducting, activated) when the receiver recognises «light», i. e. there is an object within the active range.

Background suppression		
	LED	Signal output
		Relay
Object within scanning range	lit	attracted
No object within scanning range	not lit	released

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Technical Data	Cleanskan	Notes
Scanning range	<ul style="list-style-type: none"> ■ short-range switch 50-200 mm adjustable ■ long-range switch 50-600 mm adjustable 	Short-range switch/long-range switch can be set via jumpers
Scanning range setting	Potentiometer	
Type of light	IREL	pulsed alternating light 880 nm
b/w-difference	approx. 10 %	with scanning range 50-200 mm (short-range switch)
Operating voltage	12-24 V AC (-0% / +15%) 12-30 V DC (-0% / +15%)	
Current consumption	approx. 30 mA	
Signal output	Relay, 1 changeover contact	
Response time	approx. 50 ms	
Switching mode	light switching	
Function indication	LED red	lit when output active
Connection type	5-pin plug-in terminal	
Protection class	IP 50	IP 65 with sealings
Housing material	ABS	
Optics surface	PMMA	
Operating temperature	-20°C to +60°C	
Weight	approx. 80 g	
Housing/colour	Frame white Optics surface black	
Mounting	Wall outlet	all common concealed/surface-type housings
Electromagnetic compatibility	CE acc. to EMC guidelines	89/336 EEC

Dimensions	Wiring diagram
	<p>■ Relay output</p>

