## **SPACEMOTION™ SERIES**

## Description

- K-Band motion and direction detection
- Max sensing range: 3 metres
- Adjustable sensing field range
- Adjustable slow speed zone
- Selectable background suppression
- Selectable direction sensitive detection
- Adjustable off time delay
- 10-30 V dc or 24 V ac/dc supply voltage
- Power and output indicators
- Solid state relay output
- Output monitor function (Sniffer)
- Compact IP67 housing design
- Especially designed for escalator and moving-walk applications



The SpaceMotion series is a compact Doppler radar sensor that detects motion in the detection area using the latest in microwave technology and a powerful microprocessor. The compact design allows it to be installed in space limited locations, where traditional motion sensors cannot be installed. The microwave technology allows the sensor to be mounted behind plastic constructions for out-of-sight installations.

The Doppler radar sensor detects objects that are in motion towards or away from the sensor. People passing the sensor perpendicular (i.e. with no intention of entering an escalator) will have no or very low speed relative to the sensor – such motion can remain undetected.

The detection field is divided into two parts; 'low-speed zone' and 'high-speed zone'. The part of the field closest to the sensor is the low-speed zone where low speed motion is detected. This is intended to detect people in a multi-storey building that are moving from one escalator to the next making a semi-circular movement/turn i.e. perpendicular to the sensor and with a relatively low speed. The extension of the low speed zone relative to the high speed zone can be adjusted from 0 – 100% of the total range. Total range is also adjustable.

The sensor also includes a background suppression feature which allows the sensor to ignore all constant movements of minor objects (either directly or indirectly detected through reflections) e.g. handrails.

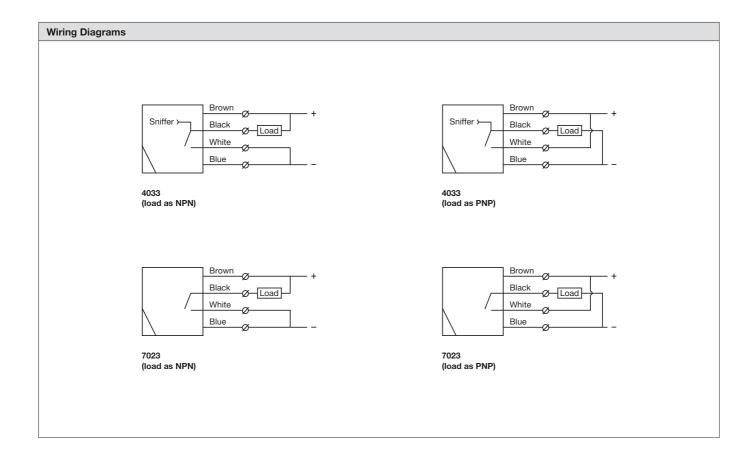
Technical Data						
Supply voltage	ac/dc	10-30 V dc / 24 V ac				
	dc	10-30 V dc				
Voltage ripple		+/- 15 %				
Output	Solid state	100 mA				
Output monitor function		Yes (dc model only)				
Reverse polarity protected	d	Yes				
Short circuit protected		Yes				
Power consumption		Max 600 mW				
Technology		Microwave				
Frequency		K-Band, 24.125 GHz				
Horizontal field		+/- 40°				
Vertical field		+/- 16°				
Power on indicator		Green LED				
Output indicator		Yellow LED				
Range		0-3 m, potentiometer adjustable				
Off delay		0 - 10 sec, potentiometer adjustable				
Background suppression		Selectable				
Low speed zone extension		Potentiometer adjustable				
Housing dimension (w x h x d)		50 x 50 x 30 mm				
Housing material		Plastic				
Connection, PVC Ø 4 mm	1	4 x 0,14 mm²				

Environmental Data					
Vibration	10-55 Hz, 0,5 mm				
Shock	30 g				
Temperature, operation	−20 to +55 °C				
Temperature, storage	−40 to +80 °C				
Sealing class	IP 67				
Approvals	<b>(</b> €				

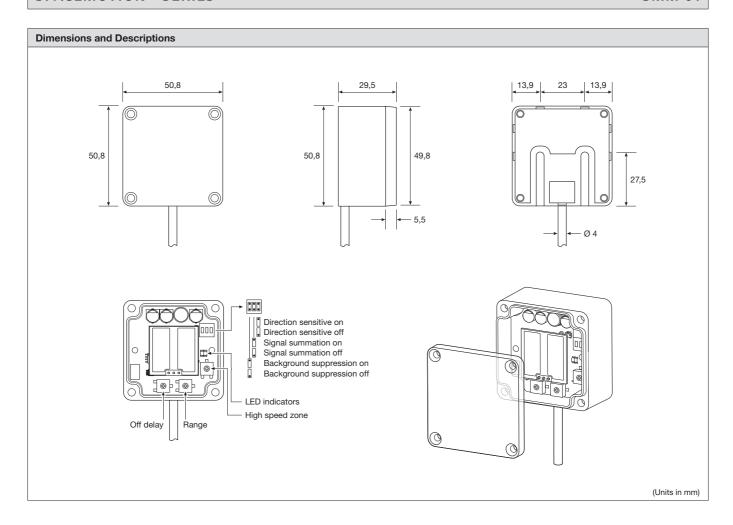


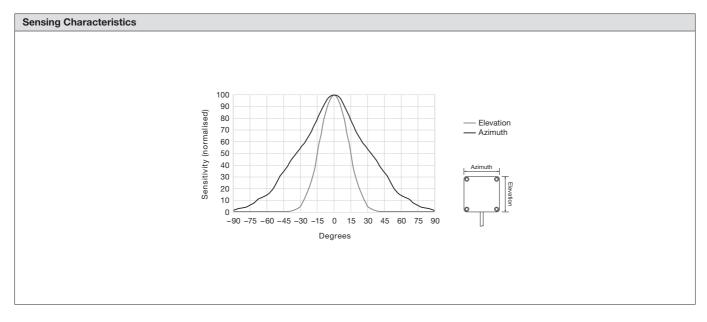
Available Types									
Туре	Power Supply	Housing (w x h x d)	Frequency	Connection		5 m cable	Range		
				Output		Order Reference			
4033	10-30 V dc	- 50 x 50 x 30	Low	Solid State Relay	NC .	SMM 01 4033L S50P 5	- 0-3 m		
			High			SMM 01 4033H S50P 5			
7023	24 V ac / 10-30 V dc		Low			SMM 01 7023L S50P 5			
			High			SMM 01 7023H S50P 5			

Connections				
	Cable			
Supply +	Brown			
Supply –	Blue			
Output	White			
Output	Black			













Telco reserves the right to change specifications without notice.

