



Defensor 100

SENSOR CABLE AND ANALYZER

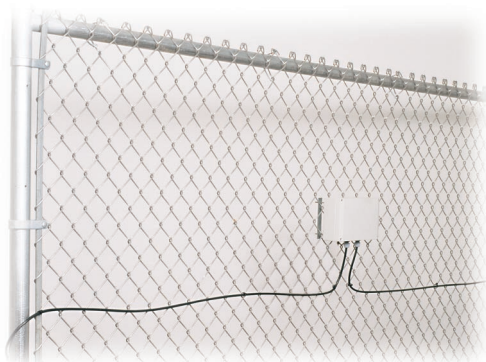
Defensor 100 Cable



The Defensor 100 Cable is the next generation sensor cable designed solely for perimeter security. Its patented magnetic construction combined with the very latest techniques in sensor cable design have resulted in it being the benchmark for the industry.

Resulting from many years of experience of sensor cable design, the Defensor 100 Cable exploits new manufacturing technology that enhances its performance. Spirawire is a process where the cable is twisted at exact intervals to provide a natural rejection capability against radio frequency and electromagnetic interference. Lubritube is a technique where specially lubricated tubes enable the precision sensor wires to move freely during an attack.

High levels of detection are achieved from the improved frequency response that the cable produces without the need to introduce complex electronic processing or increase the amplitude of the signal which is the main cause of false alarms with old generation sensor cables. Detection is linear along the entire length resulting in no blind spots, providing a detection range of approximately 1.5m either side of the sensor cable.



Defensor 100 Analyzer

The Defensor 100 Processor exploits the precision Defensor 100 Cable technology by processing the analog signal generated by an intrusion attempt on the perimeter fence using two separate channels, each individually adjustable, into alarm outputs for cut, climb and lift attacks.

Self-verification is provided via the class leading audio output which allows fence activities to be monitored by listening to the audio output. A special on-board environmental filter adapts the analyzer to each fence style and also reduces the incidence of false alarms from adverse environmental conditions. Industry standard alarm and tamper outputs enable connection to standard intruder panels for annunciation.

Features

- *Latest Generation Precision Sensor Cable Technology*
- *Uses Spirawire Manufacturing Techniques for EMI and RFI Immunity*
- *Incorporates Lubritube Technology for Ultra Sensitive Detection*
- *Individual Sensitivity, Time and Events Adjustments*
- *Suitable for Rigid and Semi-Rigid Metal Fences*
- *Superior Audio Clarity that Cannot Be Matched*
- *Weather Resistant and Robust Construction*
- *Single Zone Detection up to 400m Length*
- *Self-Verification via Audio Output*
- *Dual Channel Signal Processing*
- *On Board Interchangeable Filter Enables High Level Performance on Different Styles of Fence*
- *Remote Self-Test Facility*



Specifications

Defensor 100 Cable

Application	The new generation microphonic sensor cable for attaching to perimeter fences and internal building fabric to detect intruder activity
Sales Part Number	
Defensor 100	Defensor 100 cable
Defensor 100-FAC	Standard grade flexible armored conduit protection for external use
Defensor 100-FACHS	High security grade flexible armored conduit protection for external use
Defensor 100-FACG	Standard grade flexible armored conduit protection for internal use
Zone Length	Dependent upon fence type, condition, camera location, system design and personnel response
High Security Fences	Recommended maximum: 100m
Buildings	Recommended maximum: 400m
Roofs	Recommended maximum: 500m
Dimensions	
Defensor 100	Outer diameter: 6.5mm Maximum drum length: 500m
Defensor 100-FAC	Outer diameter: 12mm Drum lengths: 50m or 100m
Cable Outer Sheath Material	Low density UV resistant black polyethylene
Conduit Material	
External	Standard Grade: square locked, 316 grade stainless steel High Grade: round locked, heavy duty, 316 grade stainless steel
Internal	Standard Grade: square locked galvanized steel
Housing Material	Ground Stud & 3x PG9 EMC Cable Glands, 1x PG11 EMC Cable Gland, Sealed to IP65
Operating Temperature	-40°C to +70°C
Electric Magnetic Compatibility	Complies with the requirements of BS EN50081-1 and EN50082-1
Option	Termite proof jacket
Installation Time	Approximately 5 hours/100m for fence/roof; Approximately 6 hours/100m for buildings
Location	Internally or externally mounted
Maintenance	Routine inspection
Installation	By any DeTekion approved installer
Warranty	12 months from date of approved installation

Defensor 100 Analyzer

Application	Provides analysis of Defensor 100 Cable signal to provide alarm, tamper and audio outputs
Sales Part Number	GD-5000 or GD-5000 Eliminator
Inputs	Sensor Cable & Remote self-test
Outputs	
Alarm/tamper	Switchable relays between Form A and Form B, Form C Modified
Contact rating	Voltage: 110VAC or 30VDC Current: 0.3 amp AC or 1.0 amp DC Power: 30VA or 20W
Auto monitoring	OdBm into 600 ohms Open Collector
Lightning Protection	Transformer isolation and transistor suppression diodes on sensor input; Spark gaps on signal outputs
Internal Indicators	Alarm and tamper relay status indicators; Sensor Fault indicator; Events and Climb indicator PCB fuse indicator All indicators are LEDs
Internal Controls	Sensitivity: 2 independent sensitivity controls; Events: selectable 1-9; Timer: selectable in 30 sec intervals, range 30-270 secs Local Self Test Switch
Dimensions	260mm W x 160mm H x 91mm D
Weight	1.2kg
Power Requirements	7.5-28VDC; 60mA at 12V Reverse polarity and overvoltage protection with fused input as standard
Housing Material	Die-cast aluminum with agate gray polyester finish RAL 7038 Supplied complete with integral 6mm ground stud and 3x PG9 EMC cable glands, & 1 PG11 EMC cable gland, Sealed to IP66
Operating Temperature	-40°C to +70°C
Electro Magnetic Compatibility	Complies with the requirements of BS EN50131-1: 2006 & EN50082-1 & PD6662.2004
Grading	Security Grade 3 Environmental Class IV In accordance with BS EN50131-2006, A1 2009, & PD6662.2004
Options	Special environment filters for local fence styles
Installation Time	30 minutes
Fixing Method	Mounting bar
Location	Externally mounted
Maintenance	Regular self-test and inspection
Warranty	12 months from date of approved installation

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Specifications subject to change without notice.



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