SHOCKWATCH® RFID IMPACT INDICATORS

Product Description

Extend the power of your RFID program by monitoring for damage

Every company wants to improve their supply chain processes. RFID technology aided companies in improving inventory control. The ShockWatch RFID impact indicator allows companies to leverage the inventory tracking benefits of RFID and the benefits of an impact monitoring program. With ShockWatch RFID impact indicators, the need for visual inspections during the receiving process is greatly reduced. When shipments are scanned, the receiver will know if there has been a potentially damaging impact. If the ShockWatch RFID has activated, inventory can be isolated for further inspection. If there has been no impact, the shipment can be moved into saleable inventory.

ShockWatch RFID impact indicators deliver all the benefits of an impact monitoring program – reduce damage from mishandling, refine supply chain processes so mishandling can be prevented, drive down costs – plus an electronic record of the information. Armed with data, it is possible to track down trouble spots in the supply chain and implement process changes to improve outcomes.

ShockWatch RFID impact indicators are single use devices that are tamperproof, field armable, turn red when an impact occurs and can be scanned with a standard UHF reader.

Industries Served

- Aerospace & Defense
- Appliances
- Automotive Parts
- Building Materials
- Electronics
- Food
- Furniture
- Glass
- Healthcare
- Inventory
- Logistics and Supply Chain
- Medical Instruments
- Musical Instruments
- Pallets
- Packaging
- Warehousing

Product Benefits

- Acts as a visual deterrent to mishandling
- Reduces mishandling through awareness
- Helps identify trouble spots in the supply chain
  – from production to transportation to storage
- Expands the utility of RFID with damage monitoring
- Reduces receiving times and isolates items that need inspection

Key Features

• RFID enabled impact indicator
• Field-armable
• Tamper-proof
• Serialized

Not Activated

Activated

Product Specifications

Technical Specifications	
Sensitivity Range:	5-75 G
Impact Duration:	0.5 - 50 ms
RFID Type:	ISO18000-6 / EPC Gen 2
Tolerance:	± 15% at 20°C / 68°F, 1 ATM
Operating Temperature:	-25° to 80°C / -13° to 176°F
Weight (varies by sensitivity):	~5.05 g
Dimensions:	42.93 mm x 42.93 mm x 6.35 mm / 1.69in x 1.69in x 0.25in
Security:	Tamperproof / Serialized
Adhesive:	Acrylic
Product Life:	2 years when stored at standard temperature and pressure (20°C/68° F, 1 ATM)
Storage Recommendations:	20°C/68° F, 1 ATM, 0-99% RH Non-condensing

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Selection Guide

There are two things you need to know to begin selecting a ShockWatch RFID impact indicator sensitivity: shipment size and weight. The selection guide should always be used as a starting point only. The indicator that will be best suited to your application will also take into account product fragility and packaging.

ShockWatch RFID	5 - 15 ft³ .14 - .42 m³	15 - 50 ft³ .42 - 1.42 m³	50 - 100 ft³ 1.42 - 2.83 m³	100 - 250 ft³ 2.83 - 7.08 m³	250 - 500 ft³ 7.08 - 14.16 m³	500 - 1,000 ft³ 14.16 - 304.8 m³	1,000+ ft³ 304.8+ m³
0 - 10 lbs 0 - 5 kg	75G	75G	50G	37G	N/A	N/A	N/A
10 - 25 lbs 5 - 11 kg	75G	50G	50G	37G	25G	N/A	N/A
25 - 50 lbs 11 - 23 kg	50G	50G	37G	25G	25G	15G	N/A
50 - 100 lbs 23 - 45 kg	50G	37G	37G	25G	15G	15G	10G
100 - 250 lbs 45 - 113 kg	37G	37G	25G	25G	15G	15G	10G
250 - 1,000 lbs 113 - 454 kg	37G	25G	25G	15G	15G	10G	10G
1,000 - 2,000 lbs 454 - 907 kg	25G	25G	25G	15G	15G	10G	5G
2,000 - 5,000 lbs 907 - 2,268 kg	25G	25G	15G	15G	10G	10G	5G
5,000 - 10,000 lbs 2,268 - 4,536 kg	25G	15G	15G	15G	10G	10G	5G
10,000 - 15,000 lbs 4,536 - 6,804 kg	N/A	15G	15G	10G	10G	5G	5G
15,000 - 20,000 lbs 6,804 - 9,072 kg	N/A	N/A	10G	10G	5G	5G	5G
20,000 - 30,000 lbs 9,702 - 13,608 kg	N/A	N/A	N/A	5G	5G	5G	5G
30,000+ lbs 13,608+ kg	N/A	N/A	N/A	N/A	5G	5G	5G

Related Products

ShockWatch MAG2000

ShockDot

Air Pillow

ShockLog® 298