SpotSee®

ShockWatch® RFID Impact Indicators

RFID technology has improved inventory tracking processes in the supply chain. What used to require manual intervention can now be accomplished automatically with an RFID reader. For over forty years, ShockWatch impact indicators have been shown to reduce damage rated between 40 and 60%. ShockWatch RFID impact indicators combine the benefits of both.

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. Passive RFID technology is employed in the indicator so there is never a battery life issue to consider.



ShockWatch RFID in this photo is featured with a companion label and alert tape.

Benefits:

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

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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 ft^3 .14 - .42 m^3	15 - 50 ft^3 .42 - 1.42 m^3	50 - 100 ft^3 1.42 - 2.83 m^3	100 - 250 ft^3 2.83 - 7.08 m^3	250 - 500 ft^3 7.08 - 14.16 m^3	500 - 1,000 ft^3 14.16 - 304.8 m^3	1,000+ ft^3 304.8+ m^3
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

Key Specifications	
Sensitivity range	5 - 75G
Impact duration	0.5 - 50ms
RFID Type	ISO18000-6 / EPC Gen 2 / Passive
Tolerance	±15% at 20°C / 68°F, 1 ATM
Operating temperature	-25°C to 60°C / -13°F to 140°F
Weight (varies by sensitivity)	~5.05g
Dimensions	1.69in x 1.69in x 0.25in / 42.93mm x 42.93mm x 6.35mm
Security	Tamperproof, Serialized
Adhesive	Acrylic
Product life	2 years when stored at 20°C / 68°F, 1 ATM
Storage recommendations	20°C / 68°F, 1 ATM, 0-99% RH Non-condensing

Product Description	Part Number
ShockWatch RFID 5G	SWRFID-5G
ShockWatch RFID 10G	SWRFID-10G
ShockWatch RFID 15G	SWRFID-15G
ShockWatch RFID 25G	SWRFID-25G
ShockWatch RFID 37G	SWRFID-37G
ShockWatch RFID 50G	SWRFID-50G
ShockWatch RFID 75G	SWRFID-75G
Companion Label - 200/roll	26106
Companion Label - 500/roll	26107
SW2 Companion Labels	26126

REACH COMPLIANT · RoHS COMPLIANT · RESPONSIBLE MINERALS INITIATIVE

SHOCKWATCH®