IM4 Defender Series

Lift Truck Impact Detection / USB Recording with RFID
Card Reader Application For Authorized Operator Access Control

The Defender IM4 Impact Monitor provides small to medium lift truck fleets with a realistic approach to reducing damage costs and improving operator safety. Designed for easy integration and lasting success the system utilizes industry leading 16 G notification on the accelerometer with units of 0.5 to properly capture the weight per unit mass sensitivity of all applications. The system is engineered to provide information not ‘interruption’ and links operator usage to recorded impacts in real time. Also unique to the Defender IM4 series is the two-tier safety notification design that allows for companies to give warning thresholds to drivers in advance, providing a tool to eliminate damage or unsafe situations before they happen.

The RFID operator access HID card reader is integrated into digital indicator housing with IVDT Inc. proprietary software that allows self programming, deleting and management of authorized vehicles operators on IM3 SkidWeigh / Defender equipped with ProxPoint Plus RFID proximity card readers. There is no need for any additional programming devices. When power is applied to the system RFID reader LED will flash green 3 times while the beeper beeps simultaneously. The LED will turn red which indicates that HID reader is operating properly.
### Technical Data

- Voltage from 12 to 55 V DC
- Operating current 250mA
- Technology, 16 bit micro controller
- Measuring range up to 99999 kg
- 6 Mbit flash memory
- LCD display
- Real time clock with battery backup
- Enclosure, 120 x 80 x 55 mm
- Weight, 0.6 kg
- Operating temperature -20 C to +70C
- Weighing Accuracy +/- 0.1% to 1.0% of vehicle lifting capacity

**Pressure Transducer (Swiss Made)**
- Port connection, male 1/4”-18 NPT
- Built in pressure snubber
- NEMA 4X protection
- Reverse polarity protection
- Over voltage protection
- Short circuit protection
- Housing material, Stainless steel AISI 303
- Weight 95 grams
- Installation, unrestricted

**RFID Reader Card Programming**
- Self programming incorporated in the SkidWeigh system
- No additional external devices required to add or delete cards from the system

### Standard Data

- RF module
- Impact detection module
- USB port
- Bluetooth module (optional)

### Optional

- Waybill ID#
- Load Weight
- Total Weight
- TARE weight input
- Accumulative load weight total

### RFID Reader

- Read range, typical 3”
- Operating temperature -35 C to 65C
- Transmit frequency 125 kHz
- LED type bicolored (green and red)
- Card compatibility, all 125 kHz HID proximity cards, long and short formats, as well as corporate 1000 cards formats
- Recognizes card formats up to 85 bits with over 137 billion unique codes
- FCC compliance, part 15 of the FCC rules
- SkidWeigh system memory capacity to up to 250 operators ID#
- Application for all kinds of forklifts