

## X320 – Data Sheet



- IP68 and IP69K rated
- 3 band check weighing
- Built in check weigh display
- AC, DC and rechargeable NiMH battery options
- Trade Approved Australia/Europe/USA
- Built-in RS232 communications port
- Tough enclosure - impact resistant composite alloy housing

The **X320** combines innovation in **industrial design** and **engineering excellence** to create an instrument that is ideal for use in food processing, automotive, chemical or pharmaceutical applications or applications that require **reliable operation in harsh environmental conditions**. The X320 indicator builds on Rinstrum's already successful R320 indicator.

Constructed of a high tech plastic alloy that is:

- Food grade
- Chemical resistant
- Temperature resistant
- Impact resistant

**Double 'o' ring seal** which provides superior performance over traditional stainless steel enclosures.

**IP69K rating:** the industry's highest environmental protection rating - designed to withstand cleaning with high pressure water jets (1400psi) at high temperatures (up to 80°C) from multiple angles.

**Built-in check weigh function** – with 3 coloured high intensity LEDs

**Isolated outputs** - Over, Under, Pass. High side driver up to 400mA, allowing direct connection to PLCs and external actuators to be driven directly

**Customisable** - Programmable function key and configurable printing

### Smart Weighing



#### What makes this housing exceptional?

##### The design - sealed and tough

- Double O ring to seal the outer housing
- Single piece front panel to protect the display and avoid leaks
- Capacitive keys with no moving parts
- No glued membrane to fail
- No traditional keypad to damage
- No external parts using adhesive
- Sturdy design with enhanced wall strength

##### The material - high tech composite alloy

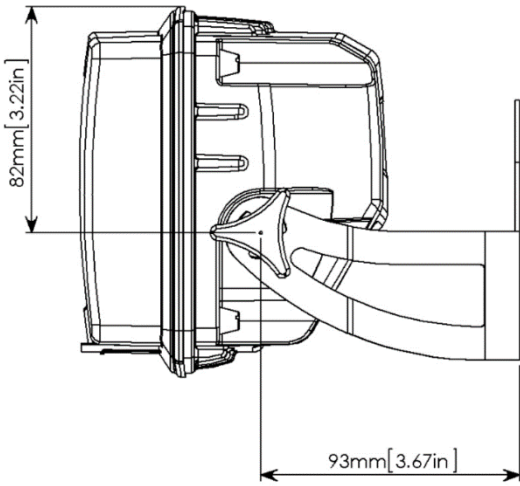
*...now that's smart weighing.*

## Specifications

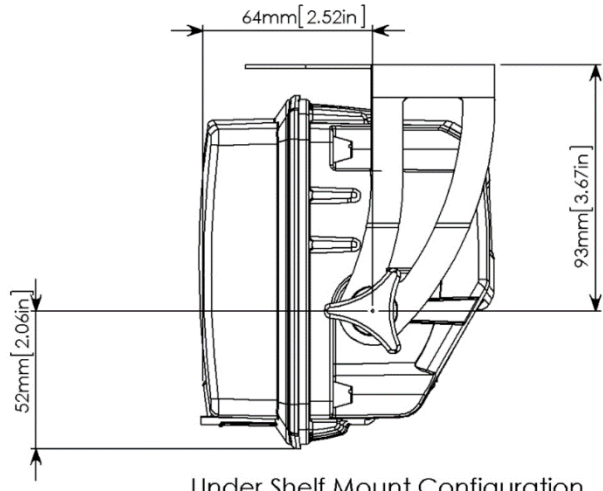
<b>X320</b>		
<b>Resolution</b>	Up to 60,000 divisions, minimum of 0.25 $\mu$ V/division	
<b>Zero Cancellation</b>	$\pm$ 2.0mV/V	
<b>Span Adjustment</b>	0.1mV/V to 3.0mV/V full scale	
<b>Excitation</b>	5 V for up to 4 x 350 or 8 x 700 ohm load cells (4-wire or 6-wire plus shield) Max total load cell resistance: 3,500 $\Omega$ (4x350 $\Omega$ Nontrade 8x350 $\Omega$ )	
<b>A/D Type</b>	24bit Sigma Delta with 8,388,608 internal counts 20 updates/second	
<b>Operating Environment</b>	Temperature: -10° to +50°C ambient (14° to 122° F) Humidity: 100% IP69K	
<b>Display</b>	LED Backlit LCD with six 20mm (0.8") high digits with units and annunciators	
<b>Setup and Calibration</b>	Full digital with visual prompting in plain messages	
<b>Digital Filter</b>	Sliding window average from 0.1 to 4.0 s	
<b>Zero Range</b>	Selectable from $\pm$ 2% to $\pm$ 100% Full Scale	
<b>Standard Power Input</b>	12 to 24VDC, 9.6,12 and 24V batteries (2.5 VA max) ON/OFF key with memory feature	
<b>Variants</b>	<b>AC</b>	AC Power supply: 110/240VAC 50/60Hz in 12VDC 1.2A out
	<b>Battery</b>	12V battery pack (rechargeable NiMH)
<b>Case Materials</b>	PC+Polyester alloy, PBT, Silicon Rubber, SS304 Stand	
<b>Packing Weights</b>	Basic Indicator: 2.0kg	
<b>Optical Data Communications</b>	Magnetically coupled infra-red communications Conversion cables available for RS232 or USB	
<b>Serial Outputs</b>	RS232 automatic transmit, network or printer outputs. Transmission rate: 2400, 4800, 9600 or 19200 baud	
<b>Battery Backed Clock Calendar</b>	Battery life 10 years minimum	
<b>Input/Outputs</b>	3 Outputs - isolated high side drive outputs (400mA each at 12-24VDC)	
	1 Input	
<b>Set points</b>	2	
<b>Approvals</b>	4,000 d @0.8uV/d NMI (S-420),OIML R76 10,000d III/III L NTEP 08-072 A1	
	<b>K376</b>	<b>K378</b>
<b>Functions</b>	display test, counting, Unit switching, manual hold, peak hold, totalising, high resolution, auto tare, Check weighing	Fixed to Check weighing
<b>Number of products for check weighing</b>	1	5
<b>Assignable Function Keys</b>	1	-

Specifications are subject to variation for improvement without notice. Illustrations are indications only and variation may be evident between products

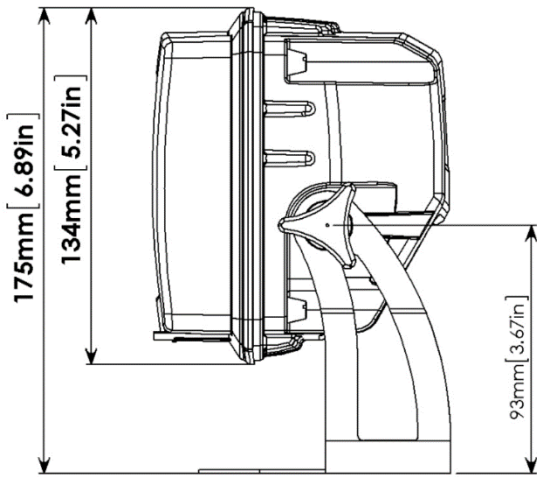
**Mounting Options**



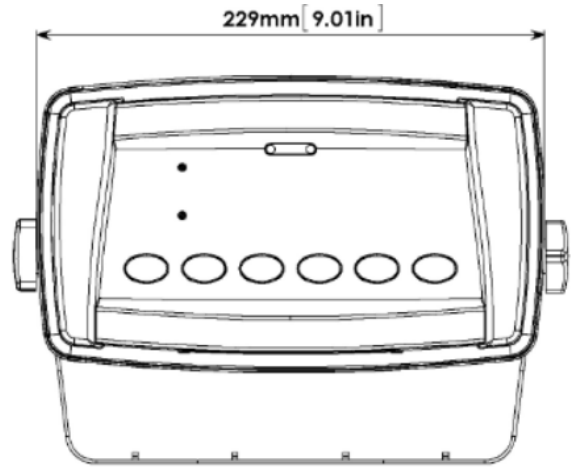
Wall Mount Configuration



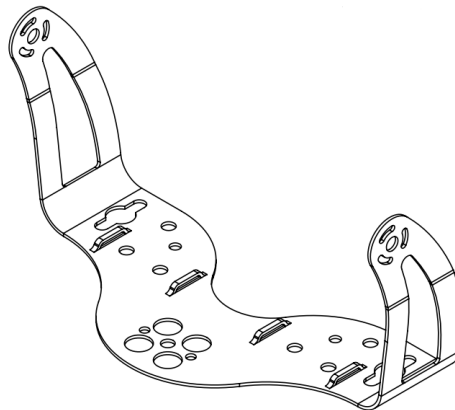
Under Shelf Mount Configuration



Desk Mount Configuration



Desk Mount Front View



M3013 Bracket