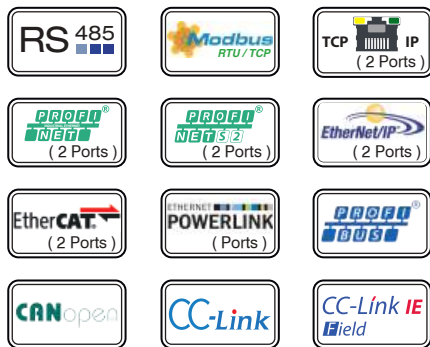


TX320Check Weighing Controller

Catchweighing, Checkweighing, Sorting



Advantages

- Cost-effective controller designed for very fast and accurate weighing.
- One billion internal resolutions.
- Data output at one million resolutions,
- Highly accurate weighing with load cell readings of up to 1600 cycles per second
- High reliability with triple isolation,
- Effect of electronic calibration on weighing error is less than 0.003%.
- Programming and calibration via PLC/PC,
- All Ethernet-enabled products feature dual ports for daisy-chain connections,
- Remote programming via web page (Ethernet variant),
- It records device interventions and system error information.



TX320Check weighing controller is a high-tech, fast and cost-effective device for weighing, checkweighing and sorting of pre-packaged products. Capable of both static and dynamic weighing, TX320Check can be used reliably on all types of weighing conveyors, checkweighers and sorting machines.

TX320Check, by measuring the load cell signal at an extremely high resolution of 1 billion and with high precision, enhances your machine accuracy and increases its throughput of up to 200 packages per minute.

It connects easily to the HMI, PC, or PLC of your machine via one of 12 communication protocols, enabling seamless real-time data transfer..

BAYKON
Industrial Weighing Systems

High-Precision, Super-Fast Weight Measurement and Checkweighing with Cost-Effective TX320Check

Superb precision at very high speeds in checkweighing, thanks to its very high operating resolution.

Operating Modes for Weighing Machines

- ✓ Dynamic checkweighing with or without sensors,
- ✓ Dynamic sorting with or without sensors,
- ✓ Dynamic catchweighing with or without sensors,
- ✓ Static checkweighing with or without sensors,
- ✓ Static sorting scales with or without sensors,
- ✓ Static catchweighing with or without sensors,

Fast and Accurate Measurement with Very High Resolution

- ✓ With 1 billion internal resolutions and up to 1600 samples per second, it provides extremely fast, highly precise, and accurate measurements.
- ✓ The delay in the digital process, including the output signal, is less than 2 ms.

Very High Reliability

- ✓ High reliability with triple isolation
- ✓ Very high EMC immunity,
- ✓ EMC protection on interface connections,
- ✓ Alerts the operator via a digital output regarding the weighing result and in the event of errors.
- ✓ Interventions in the weighing system settings and faults are logged to ensure the system's traceability.

Keys and alphanumeric display

- ✓ Easy to set up with the dedicated alphanumeric display,
- ✓ The measured value is always visible on the display,
- ✓ The status of digital inputs/outputs is displayed on the screen,
- ✓ It displays system faults alphanumerically, helping you to find solutions easily.

Ease of Use

- ✓ Easy programming via the display and keys,
- ✓ Quick set-up with high precision without needing weights, thanks to the precise eCal feature,
- ✓ Backup and restore parameters via USB connection to a PC.

Digital Inputs/Outputs

- ✓ Galvanically isolated and protected 3 digital inputs and 4 outputs,
- ✓ Outputs for weighing results,
- ✓ An output to control the weighing conveyor,
- ✓ Reject output for separating out-of-tolerance products,
- ✓ Error output,
- ✓ Product detection sensor inputs for checkweighing and catchweighing,
- ✓ The status of inputs and outputs is displayed on the display.

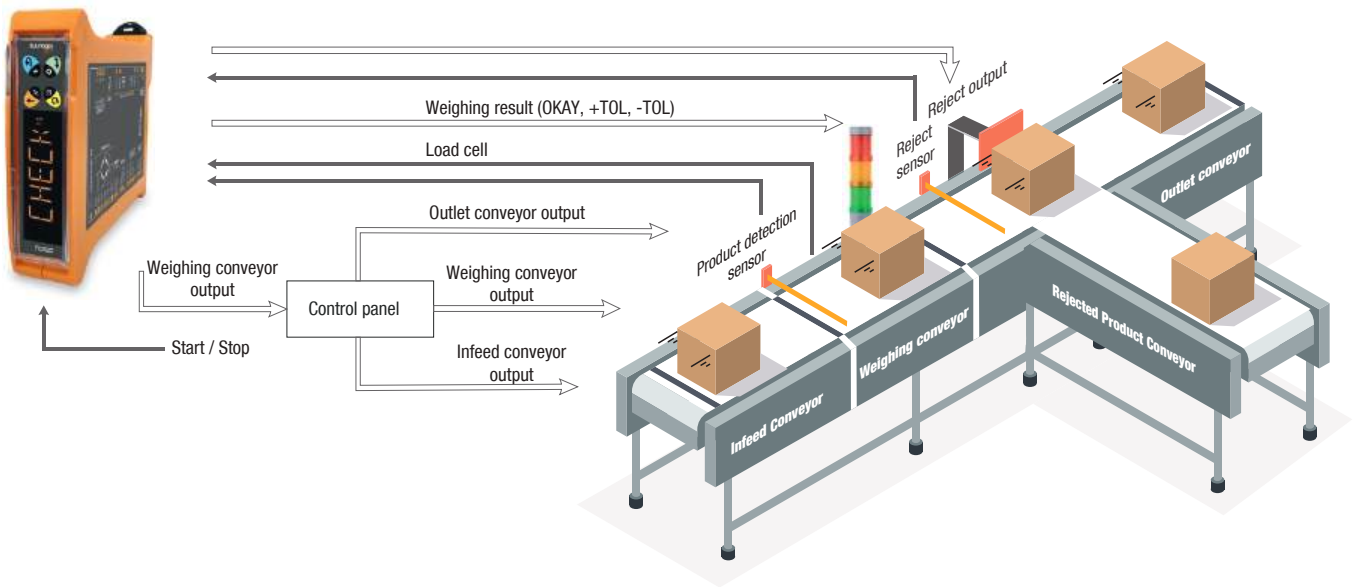
Wide Range of Interface Options

- ✓ Modbus RTU (via RS485), digital 3 Inputs / 4 Outputs and USB connectivity are standard on all variants.
- ✓ Dual-port industrial Ethernet variants for daisy-chain connections,

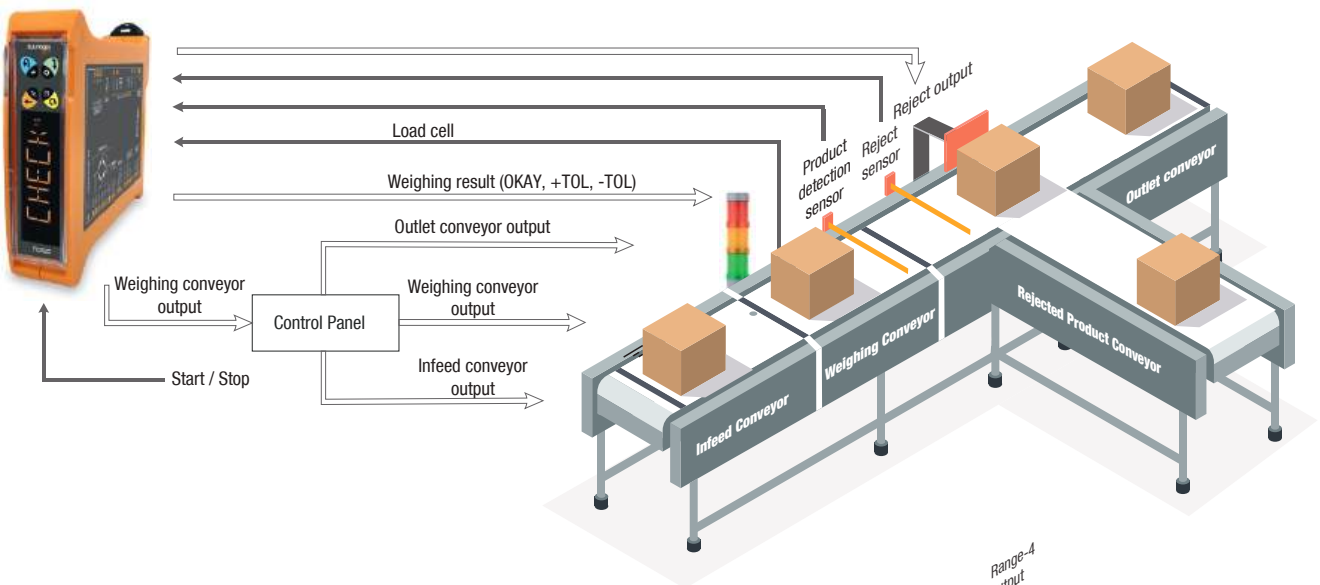


Application Samples

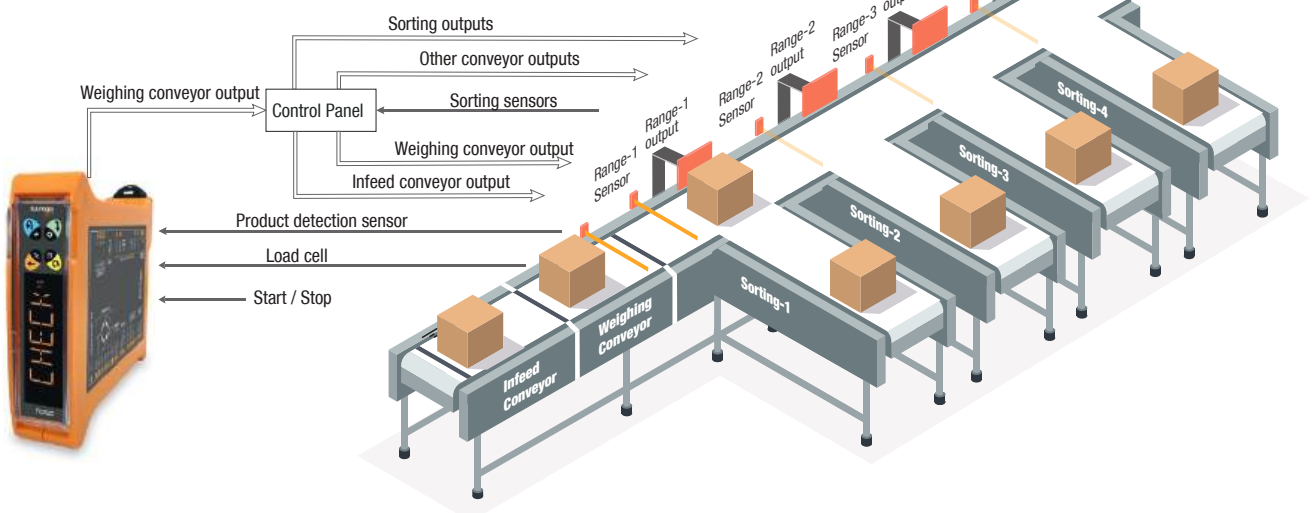
Dynamic (Without Stopping the Conveyor) Checkweighing with/without Sensor



Static (by stopping the conveyor) Checkweighing with/without sensor



Sorting / Catchweighing



Technical Specifications

Application	Static or dynamic checkweighing , catchweighing and sorting machines
Setup and programming	Access to all weighing parameters via communication. Option to load parameters and calibration coefficients from a computer, depending on the machine type.
Measurement time	≥ 5 milliseconds
Response delay	The total response delay of the digital processing and output circuits is less than 2 milliseconds.
A/D converter type and sampling rate	30-bit Delta-Sigma ratiometric with adaptive digital filter. Conversion rate up to 1600 conversions per second.
Input signal range	Between 0 mV and 75 mV
Linearity and thermal stability	< 0.0015% FS, ≤ 2 ppm/°C
Resolution	Display resolution up to 999 999, Checkweigher operates at a sensitivity 1000 times that of the display.
Load cell power supply and number	5 VDC, up to 8 load cells of 350 Ω or 25 load cells of 1100 Ω each
RS-485 serial output	1200 - 115,200 baud, 7 or 8-bit length; even/odd/none, Continuous data output, selectable as BSI or Modbus RTU. Maximum number of stations: 31.
Digital inputs and outputs	3 optically isolated 12–24 VDC digital inputs and 4 optically isolated 12–24 VDC digital outputs
PLC communication	Real-time communication with the PLC via a serial link or fieldbus to maximise weighing capacity.
Power supply	10-28 VDC, current requirement 80 mA (TX320) / 220 mA (TX320 Fieldbus variants) @ 24 VDC.
Operating conditions	-15 °C to +55 °C, 85% RH non-condensing
Enclosure material, type, protection class	Polyamide, DIN rail type, protection class IP20
Package dimensions, weight	132 x 112 x 30 mm, 254 g

Order code

TX320Check EN - AN

Varyant-2

(Blank) : Not available
AN : Band speed adjustment via analogue output
(Please contact Baykon)

Varyant-1

(Blank) : Not available
EN : Ethernet TCP /
Modbus TCP
PN : Profinet
PNS2 : Profinet S2
EI : EtherNet/IP
CF : CC-Link IE Field

PB : Profibus
CO : CANopen
CC : CC-Link
EC : EtherCAT
PL : Powerlink

Everything from a single source

Baykon provides products, solutions and services to enhance the reliability and efficiency of production and packaging lines in the industrial sector. Reliability is ensured through product control at the input and output stages of the packaging line using process weighing.



Process weighing and automation

- Tank and silo weighing
- Industrial scales
- Dosing and formulation
- Process control



Product control

- Metal Detectors
- X-ray detectors
- Automatic checkweighers
- SQC Statistical Quality Control



Service

- Technical support
- Commissioning
- Fast and effective service
- Calibration