

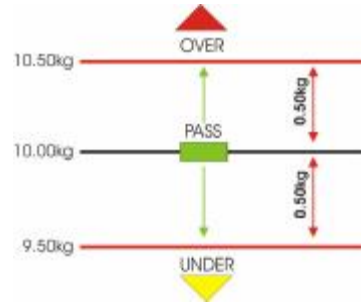
Application Note: X320 Check Weighing

Application:



An X320 mounted on a bench scale is to be used for a check weighing application. It is configured as a 30kg x 0.01kg scale.

There are three grading zones available (Under, Pass and Over).



The target weight of the bag is 10kg.

- If the bag is under weight by 0.50kg or more the amber “Under” LED on the front panel and the amber traffic light will illuminate.
- If the bag is over weight by 0.50kg or more the red “Over” LED on the front panel and the red traffic light will illuminate.
- Lastly, if the bag is within the range of 9.50kg and 10.50kg the green “Pass” LED and the green traffic light will illuminate.

The Over and Under weight limits of the check weighing function can be configured in two ways. It can either be configured in the setup menu or by the operator by holding down the function key if it is mapped to check weigh.

Components:



X320
X320 Battery/AC
powered



M3013
Hardware Stand for
pole mounting



A10018
Insert for pole
mounting



Traffic light
Third Party Supplied

Operation:

1. Setup



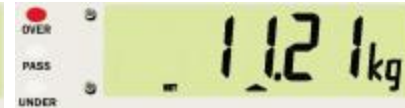
In this example an X320 machine is used to check the weight of bags.

2. Auto Tare



Place an empty container on the scale. The indicator will automatically tare if the empty container is within the preset Auto Tare weight (eg. less than 0.20kg)

3. Filling and check weigh



a. Fill the bag while it is on the scale. If the weight is less than 9.50kg (eg 9.35kg as shown above), the “Under” LED illuminates on the front panel.

b. If the weight is between 9.50kg and 10.50kg (eg 10.08kg as shown above), the “Pass” LED illuminates on the front panel.

c. If the weight is over 10.50kg (eg 11.21kg as shown above), the “Over” LED illuminates on the front panel.

Configuration:

To enter the setup mode, hold down the **Power** and **Gross/Net** key for a few seconds.

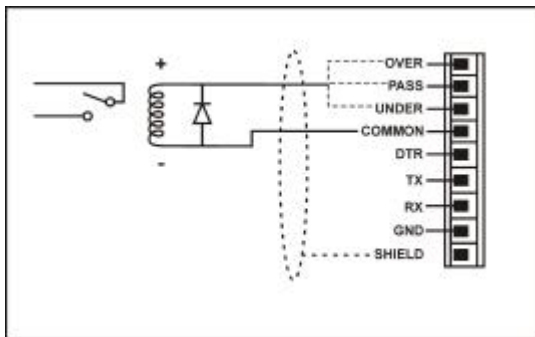
FULL SETUP

BUILD: setup as required
OPTION: setup as required
CAL: setup as required
_SPEC
 _SAFE.PC: as required
 _FULL.PC: as required
 _KEY.LOC: as required
 _KEY.FN: if operator target value access is required than set to **_CHECK.W_** else set as required for other available functions. Refer to manual for list.
 _AUT.OFF: as required
 _B.LIGHT: as required
 _REM.FN: as required
 _BAT.VLT: as required
 _W.D.LOCK: as required
SERIAL: setup as required
_CHECK.W
 _ENABLE: ON (must be on for LED's and outputs to work)
 _SRC: GROSS (can also be set to **_DISP_** or **_NET_** depending on requirement)
 _OVER: 0010.50 kg (can be altered by operator if **_KEY.FN:CHECK.W**)
 _UNDER: 0009.50 kg (can be altered by operator if **_KEY.FN:CHECK.W**)
CLOC: setup as required
TEST
FACTRY
END

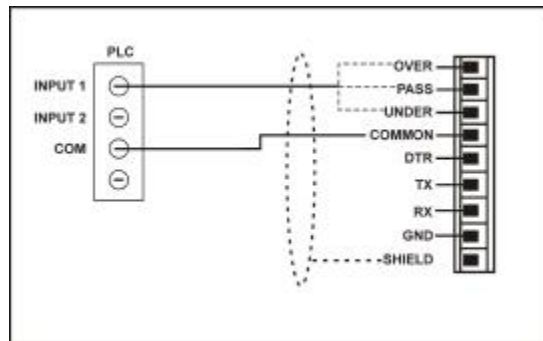
Outputs:

- The output drivers for the indicator are high side drive and are capable of driving up to 400mA each.
- This configuration allows for the direct connection of the indicator outputs to most types of PLC.
- The voltage applied to the indicator's positive power supply terminal (+) appears on the output lines when the outputs are active.
- To drive external loads (eg. relays); connect the output line directly to the positive side of the relay coil. Connect the negative side of the relay coil to COMMON.
- It is recommended that fly-back diodes or transient suppressors be fitted across inductive loads such as relay coils to limit switching noise.

Outputs to Drive Relays



Outputs to Drive PLC Inputs



For more information refer to the Reference Manual for this product