

Application

An **X320 (K376 firmware)** 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's contents is 10kg.

- If the contents 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 contents 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 contents 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-K376-XX
**X320 Battery/
DC/AC powered**



XG-3040-100
**XG Scale base -
100kg**



M3012
**Hardware Stand
for pole
mounting**



A10018
**Insert for pole
mounting**



Traffic light
**Third Party
Supplied**

Configuration

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

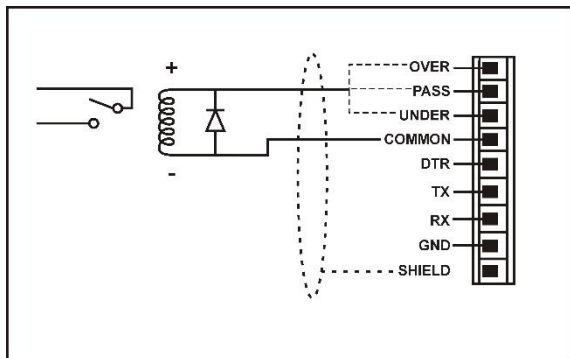
FULL SETUP

__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 then set to __CHECK.W__ If auto tare feature is needed set to __A.TARE__ If else set as required for other available functions. Refer the manual for list.
__AUT.OFF	: as required
__B.LIGHT	: as required
__REM.FN	: as required
__REM.CHR	: as required
__BAT.VLT	: as required
__W.D.LOCK	: as required
__E.UNITS	: as required
__QCK.CAL	: as required
__BUZZER	: as required
__LB-OZ	: as required
__PWR.FN	: as required
__SERIAL__	: setup as required
__CHECK.W	
__ENABLE	: ON (must be on for LED's and outputs to work)
__SRC	: __NET__ is recommended if there is a container involved. Can also be set to __GROSS__ or __DISP__ 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__	

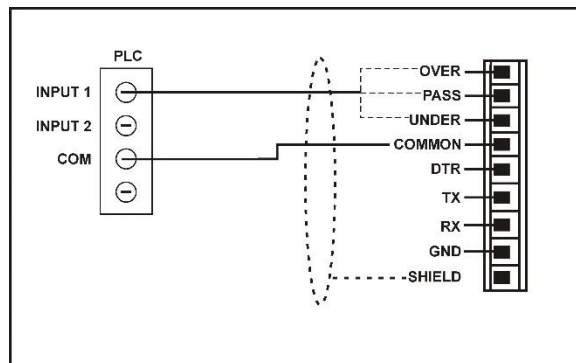
Outputs

- 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



Operation

1. Setup



In this example a X320 indicator is used to check the weight of bags.

Where containers are involved, a SRC setting of NET is recommended. Refer FULL SETUP above.

2. Auto Tare



In setup `_SPEC > _KEY.FN` should be set to `_A.TARE_`

Press and hold function key to set the tare threshold value.

Place an empty container on the scale. The indicator will automatically tare if the empty container is over the Auto Tare threshold weight (eg. more than 0.15kg)

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.

For more information refer to the **X300-652** X320 Reference Manual.