



## TP R BOX



SKIOLD MAKES THE DIFFERENCE!

TP-R is a sub control unit to be used between the DM6000 main control unit and a dryfeed wire or chain system, the TP-R has internal the contactors for the drive unit and the hopper, and connections for up to 3 full/empty sensors. It also contains timers for starting without signal from the wire full sensor, and timer for emptying the circuit. One signal only for operating the unit, 3 signals return to tell the main system how things are, the first: Box OK meaning no failiure, Second: Wire full, the third: Box in "1".

### Technical information:

Measurements WxDxH	: 400 x 210 x 300 mm.
Shipping weight	: 9,0 kg.
Temperature area	: 4 – 50 °C
Supply	: 400VAC 2*0.75Kw motors.
Main fuse	: Min. 10A - Max. 16A
Activating signals	: 24 Vdc
Feedback	: Potential free
Enclosure	: IP 55.



Item number	Description
130001400840	TP-R Control box
140601075089	Stop sensor, cpl. Ø50.8 (system full)
140601076009	Stop sensor, cpl. Ø60 (system full)
140601076309	Stop sensor, cpl. Ø63.5 (system full)
140601075086	Stop sensor, cpl. Ø50.8 (overflow prot.)
140601076006	Stop sensor, cpl. Ø60 (overflow prot.)
140601076306	Stop sensor, cpl. Ø63.5 (overflow prot.)
140119000168	Sensor for auger full, cpl.
140601001860	Diagrams for TP-R

### Use of TP-R (DM6000):

The control signal is 24 volt DC.

The return signals are potential free.

When ordering the electric main panel of DM 6000 to a system where TP-R is connected, the correct configuration must be chosen:

TP-R DM6000                    130 001 400 818

### Function description:

#### When box in position "1":

The start signal will start the drive unit and the hopper, and these will both keep running as long the start signal is present, if either the sensor for the hopper full or the sensor for auger head full is activated, the relay output for the auger/hopper is paused.

When the wire full signal is activated – the return signal for wire full is given to the main system as a return signal.

When the start signal is removed, the hopper/auger will stop, but the drive unit will continue to run in the time setting of empty timer inside the box.

If a overload or wire failure is detected internally in the box, the lamp outside the box will be turned on, and the OK signal will be OFF to the main system DM6000.

#### When box in position "0":

Static return signals is given to the main system:

**Box is OK + Wire Full + Box in "0"**

By these 3 fake signals it is possible in the sequence tables of DM6000 to bypass a building section if customer does not want to feed one section, but all the others in the same main group.

Time scheme:

