This is a new version of the Icaro with a “Thalia” style panel that has 4 programmable command inputs and 3 programmable safety inputs

(2 of which can be 8.2KΩ safe edge inputs)

Direction is now controlled by Logic rather than changing wires

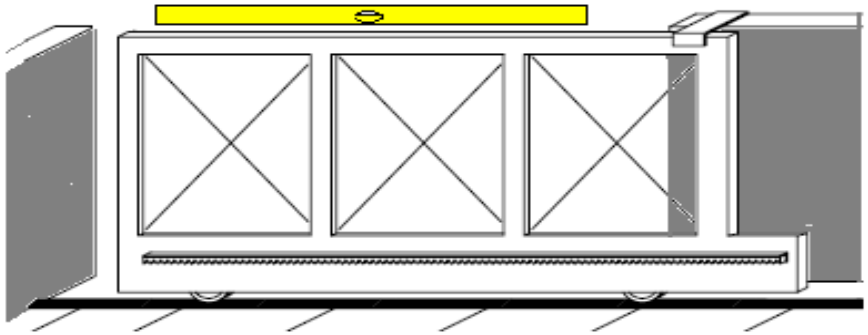
tuned to you

Icaro N QRG

Quick reference guides are not a replacement for the supplied instructions, they are supplementary
Read and understand the installer warnings in the main instruction document first
Always apply good, safe, state of the art engineering and electrical installation principles
Safety of the completed installation is the ultimate responsibility of the installer
This product is not suitable for DIY use and should only be installed and maintained by a trained, skilled, professional installer

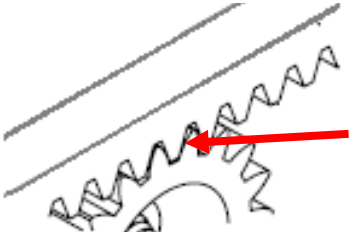
Rolling Checks

The gate *must* be perfectly level at all stages of opening
(Tracked or Cantilevered)



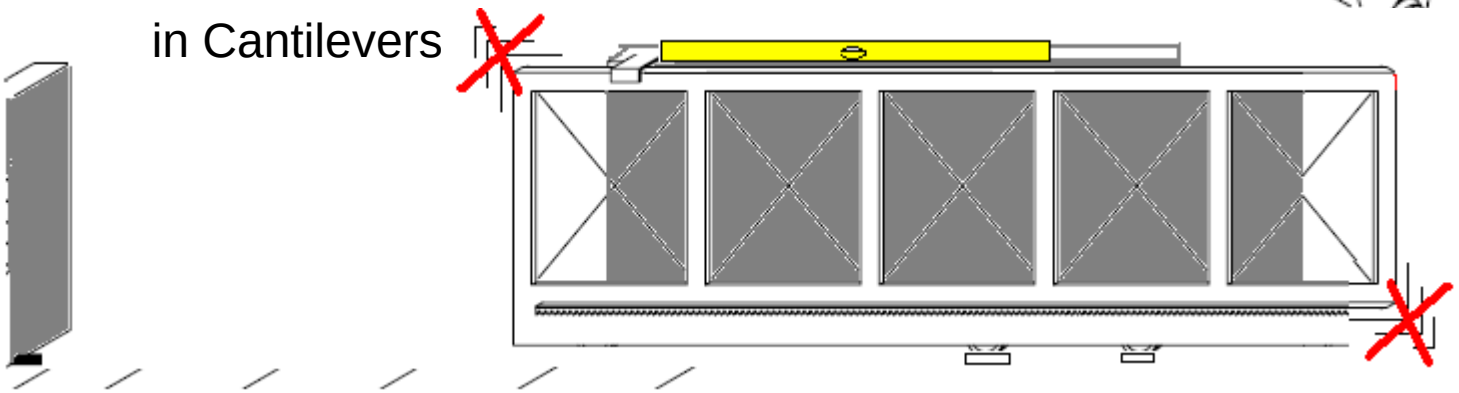
There *must* be adequate clearance between the drive rack and the drive pinion, this is to ensure that the pinion does not carry *any* of the gate vertical weight

Clearance must be present at *all* stages of travel – check it!



2mm Clearance

There *must* be no “droop” or “rocking” action in Cantilevers



Physical end stops must be fitted to ensure the gate cannot come out of its runners

Method

Set up and check the rolling hardware for level and droop

Fit the drive rack maintaining 2mm pinion clearance throughout travel

Fit a 45mm passive edge to the leading edge

Fit the limit plates to give min. 20mm free clearance at each end of travel

Lock off the release

Run the quick menu
(Direction LH is with motor on the left RH is with the motor on the right)

The Auto set routine should result in an OK message
(If it does not – re check limits and rolling gear)
Increase open/close force to around 25%

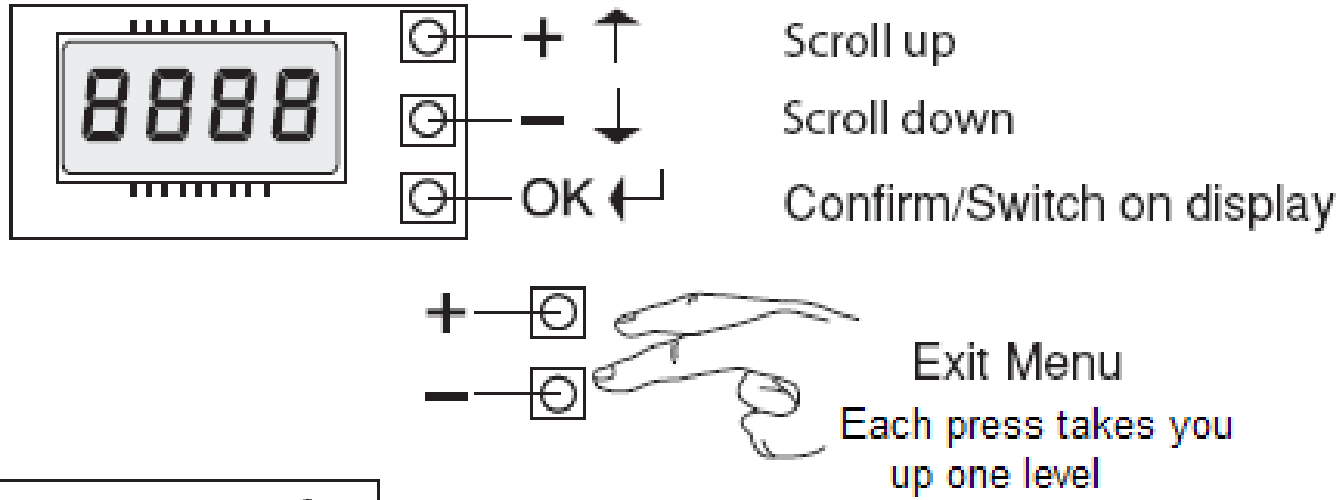
If the display reads SET give the panel start commands to provide a complete uninterrupted open/close sequence to re calibrate the torque curve –

Beware! There will be no obstacle detection during this sequence

Add accessories one at a time and check the function of each before moving to the next.

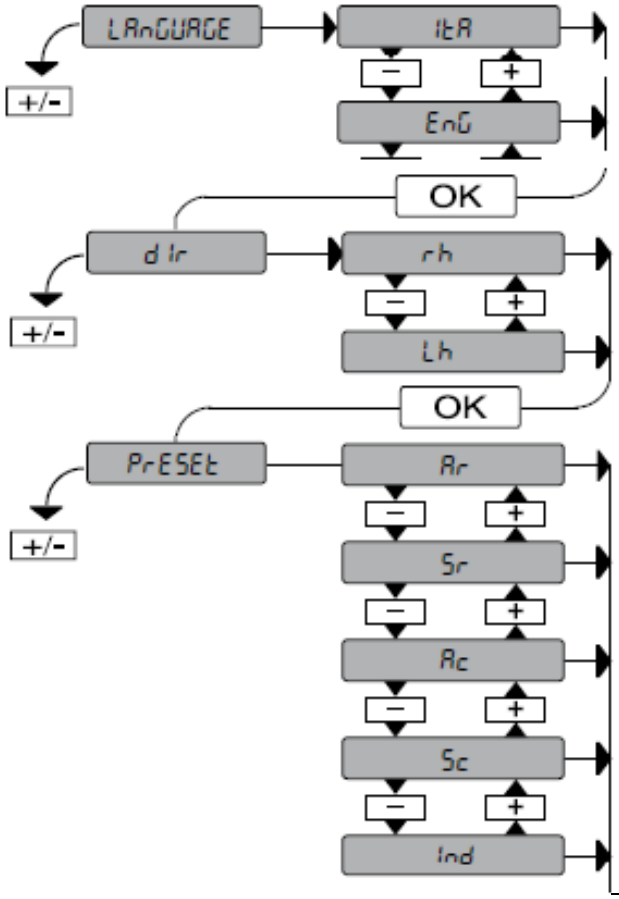
Menu System

There are two menu systems available, the quick menu is for the initial setup, thereafter the main menu should be utilised.

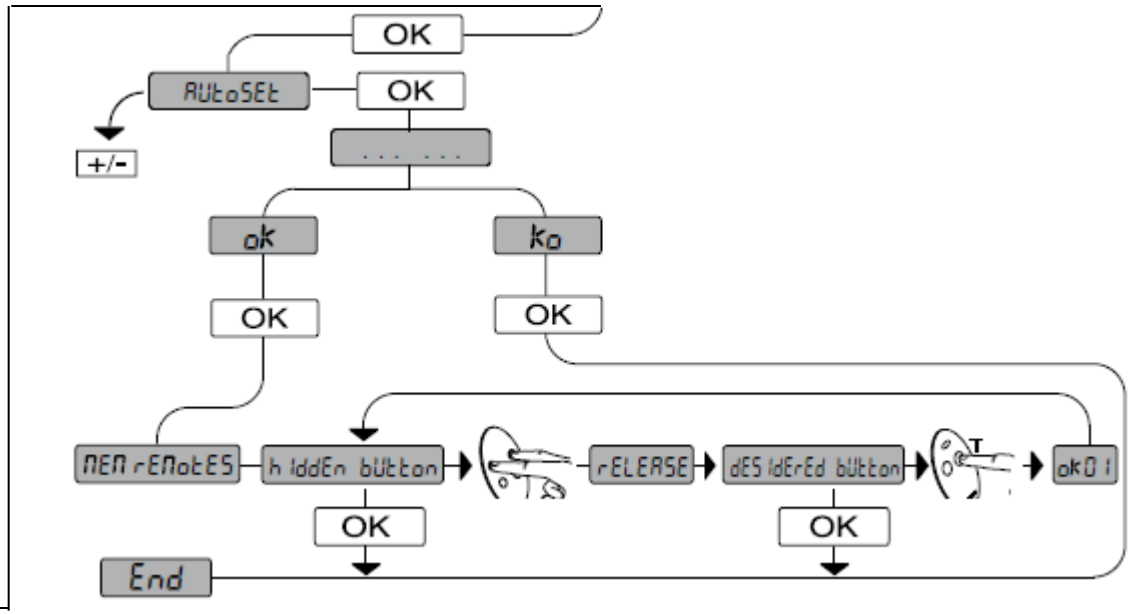


Quick Menu Layout

At each stage – wait for default to be displayed and then adjust up or down to select the appropriate setting.



This will result in an initial functioning system, do not run this menu again as the panel will return to initial settings, all further adjustments must be made via the main menu.



Quick Menu Direction & Presets

Direction – Lh = Motor on the left rh = Motor on the right

Ar = Automatic Residential

Sr = Semi Automatic Residential

Ac = Automatic Commercial

Sc = Semi Automatic Commercial

Ind = Industrial (Dead Man)

	Ar	Sr	Ac	Sc	Ind
Automatic Closing Time	1	0	1	0	0
Step-by-step movement	1	0	1	0	0
Pre-alarm	0	0	1	1	0
Deadman	0	0	0	0	1
Block pulses during opening	0	0	1	1	0

Main Menu Layout

Parameters

Adjustable numeric settings

Logic

Function settings – 0 = OFF 1 = ON (some have multiple options)

Radio

Transmitter storage

Language

Panel language selection

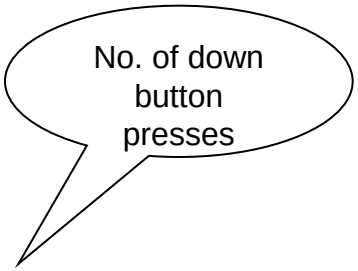
Default

Restore panel Parameter and Logic settings to factory default

Auto set - Automatically sets torque, brake & slow speed

Statistics - Version, No. cycles, No. remotes, ER codes

Essential Parameters



2	tcA	Automatic closing time (sec)
4	oP.diSt.SLoUd	Opening slow down distance (% of total opening)
5	cLS.diSt.SLoUd	Opening slow down distance (% of total opening)
7	oP.ForcE	Opening obstacle sensitivity (10% at Auto set)
8	cLS.ForcE	Closing obstacle sensitivity (10% at Auto set)
9	oP.Slud.ForcE	Opening slowdown obstacle sensitivity (10% at Auto set)
10	cLS.Slud.ForcE	Opening slowdown obstacle sensitivity (10% at Auto set)
11	brAKE	Braking force applied at limit switch activation

If the panel flashes “SET” after a parameter is adjusted, it needs to perform a complete open and close cycle without interruption to re calculate its torque curve – simply apply START commands until “SET” clears from the screen

For more options and detail see main instructions

Essential Logics

No. of down button presses

		Automatic closing
2	StEPbyStEP	Start impulse response – 0 = 4step 1 = 3step 2 = 2step
6	ibL 0PEn	Block START during opening
10-12	SAFE1-3	Safety circuit 1/2/3
13-16	ic1-4	Command input 1/2/3/4

0	Start E
1	Start I
2	Open
3	Close
4	Ped
5	Timer
6	Ped Timer

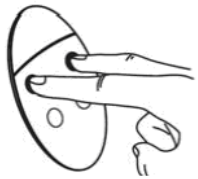
0	Photo Cell Open & Close
1	Tested Photo Cell Open & Close
2	Photo Cell Opening Only
3	Tested Photo Cell Opening Only
4	Photo Cell Closing Only
5	Tested Fhoto Cell Closing
6	Safe Edge
7	Tested Safe Edge
8	8K2 Safe Edge **(Only available on Safe 1 & Safe 2)**

For more options and detail see main instructions

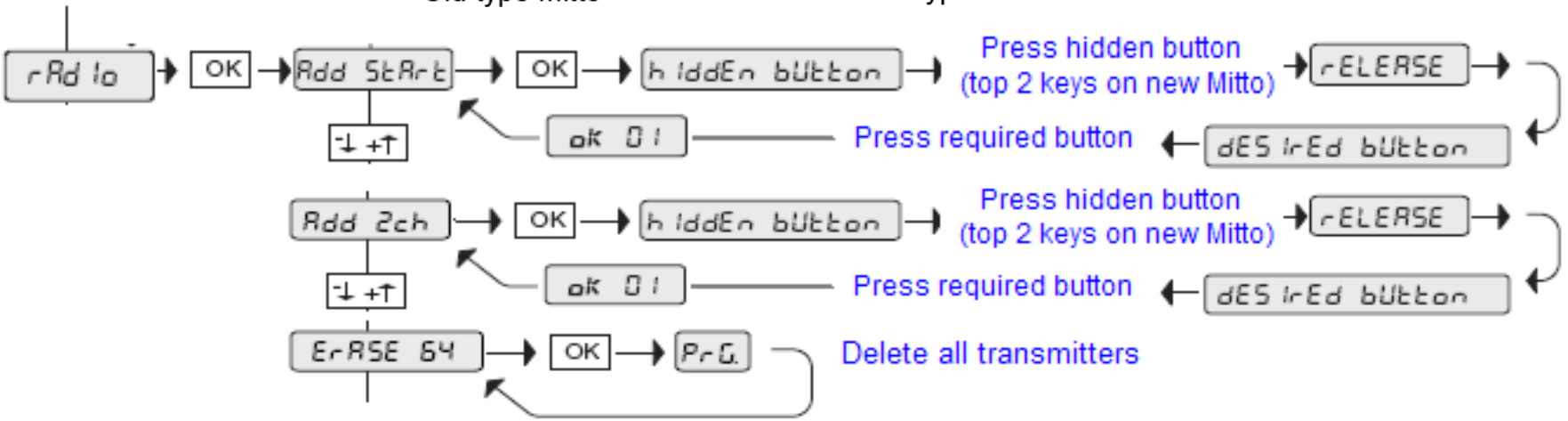
Radio and Language

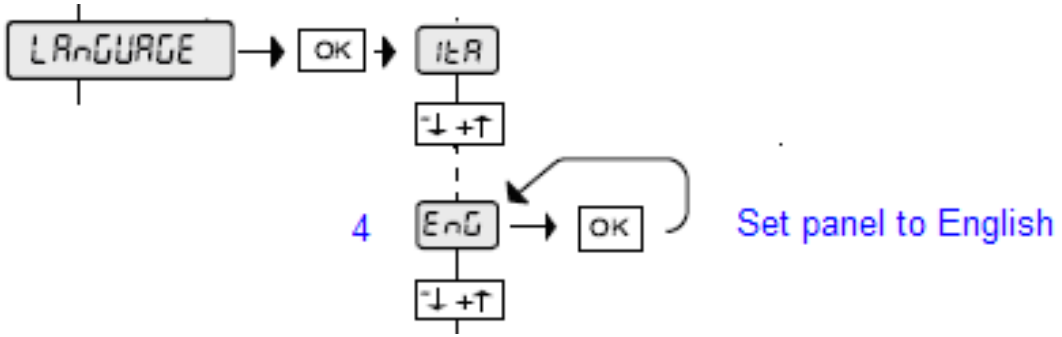
Old type Mitto

"Hidden Button"

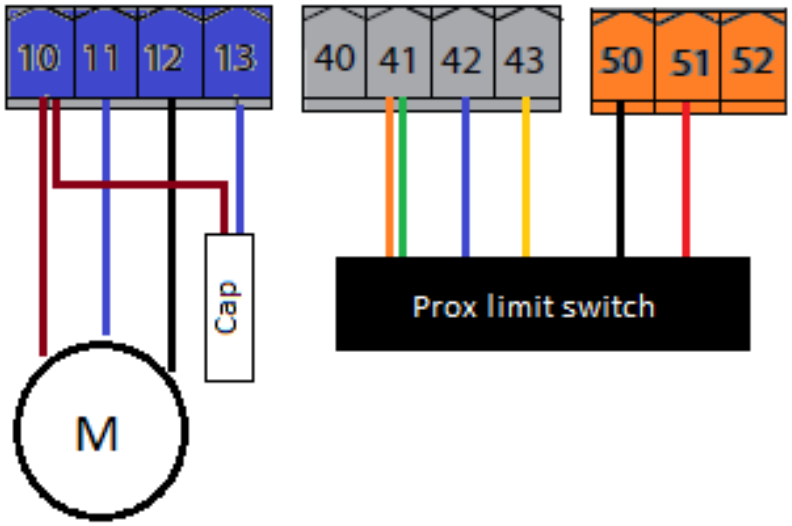


New type Mitto





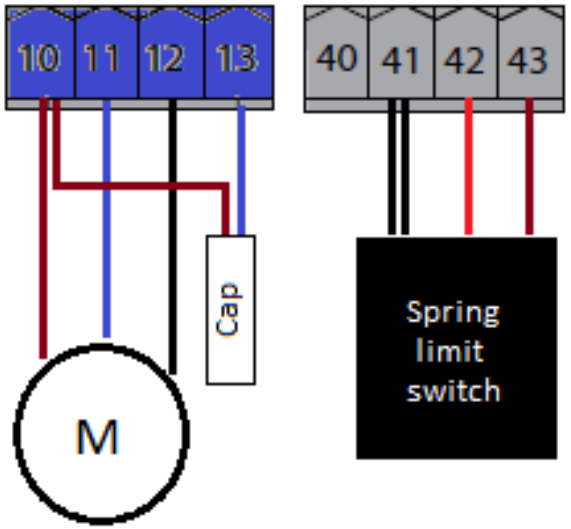
Motor and Limit Wiring



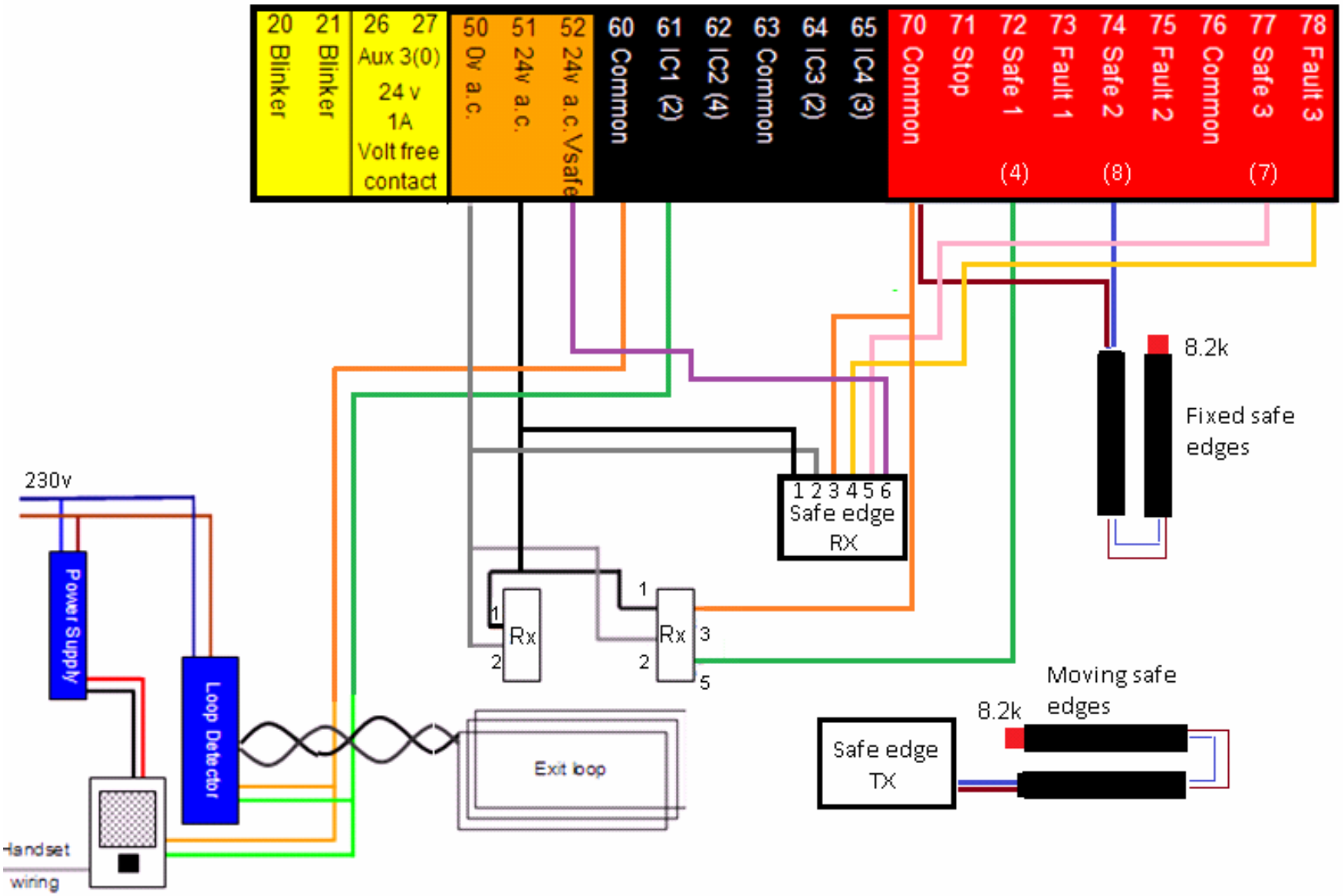
Changing direction of the motor is now achieved by selecting DX (r/h) or SX (l/h) in the quick menu or by changing the LOGIC setting

oPEn in othEr
d irEct.

in the main menu



Typical Wiring Layout



Machine Directive Compliance

Using the traditional menu, increase slow distance to give 800mm of slow down space at closing – this is % of total travel
(And opening if crush hazard exists)

Measure the force/time at 500mm in line with the drive rack

If force/time is under limits adjust “close slow force” to just below the limit (And opening if crush hazard exists)
If force/time is over limits, re examine the rolling gear and gate for inclination, binding, droop & pinion clearance and rectify

Re test - if force/time is still high it will be necessary to make the safe edge active with a Cat. 2/3 device – Indus, radio, etc.
Run a full set of force tests

Shearing risks at gate and supports can be addressed using 8k safe edges wired direct to Safe1 or 2

Address all other risks as per EN12453