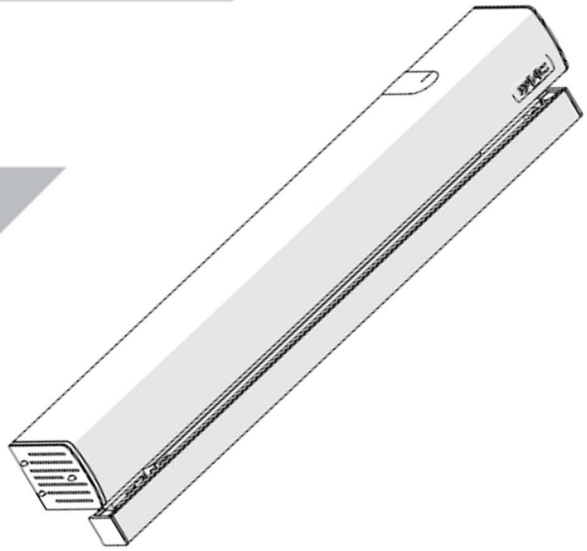


A951

safe zone green tech EN16005

EU DECLARATION OF CONFORMITY

The Manufacturer

Company name: FAAC S.p.A. Soc. Unipersonale

Address: Via Calari, 10 - 40069 Zola Predosa BOLOGNA - ITALY

hereby declares under its own exclusive liability that the following product:

Description: Gearmotor for pedestrian swing doors

Model: A951

complies with the following applicable EU legislations:

2014/30/EU
2011/65/EU

Furthermore, the following harmonised standards have been applied:

EN61000-6-2:2005
EN61000-6-3:2007 + A1:2011

Bologna, Italy 01-03-2017 CEO

DECLARATION OF INCORPORATION FOR PARTLY COMPLETED MACHINERY

(2006/42/EC ANNEX II P.1, B)

Manufacturer and person authorised to prepare the relevant technical documentation

Company name: FAAC S.p.A. Soc. Unipersonale

Address: Via Calari, 10 - 40069 Zola Predosa BOLOGNA - ITALY

hereby declares that for the partly completed machinery:

Description: Gearmotor for pedestrian swing doors

Model: A951

The essential requirements of the Machinery Directive 2006/42/EC (including all applicable amendments) that have been applied and fulfilled are as follows:

1.1.2, 1.1.3, 1.1.5, 1.1.6, 1.2.1, 1.2.3, 1.2.6, 1.3.1, 1.3.2, 1.3.3, 1.3.4, 1.4.1, 1.4.2.1, 1.5.1, 1.5.2, 1.6.3, 1.6.4, 1.6.5, 1.7.1, 1.7.1.2, 1.7.4

and that the relevant technical documentation has been compiled in compliance with part B of Annex VII.
Furthermore, the following harmonised standards have been applied:

EN16005:20012
EN ISO 12100:2010
EN13849-1:2015
EN13849-2:2012

And also undertakes to transmit, in response to a reasoned request by the national authorities, relevant information on the partly completed machinery by mail or e-mail.
Finally, the manufacturer declares that the above-mentioned partly completed machinery must not be put into service until the final machine in which it is to be incorporated has been declared compliant with the requirements of the above-mentioned Machinery Directive 2006/42/EC.

Bologna, Italy 01-03-2017 CEO

These instructions are to be considered as a rapid guide for installation of the FAAC A951 for both a single door installation or double door installation with On Door Safety Sensors and a check for opening/closing speeds along with the Hold Open time. We have included references where to find relevant wiring information for the fitting of Safety Sensors to protect the swept area of door/doors as specified by specified by the Risk Assessment undertaken by the installer. The installer should still familiarise themselves with the full manual and the safety information contained within. (available at https://www.faac.co.uk/door/swinging-doors/951-swing-door-operator)

STEP 1

Please ensure that the door is free swinging, not binding and any closers (such as surface mount, in-head pivot closers, hinge closers) are removed prior to commencement of installation.

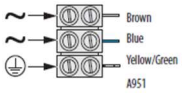
STEP 2

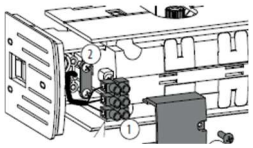
Inside every A951 cardboard box, there is a 1:1 Scale Mounting Template (See below). Please use this template for the position of the mounting holes, both for the operator and the arm. If for any reason, this is not available please refer to the A951 manual and pages 12 through to 13 for the mounting holes positions.

Please also use appropriate fixings for the material that you are fixing the operator to. In General, 60mm of Softwood, 40mm of Hardwood, 10mm of Aluminium or 6mm of Steel are suitable mounting requirements.

STEP 3

Once the operator and arm are mounted to the header and door, wire main power to the A951 as below. Then power on.



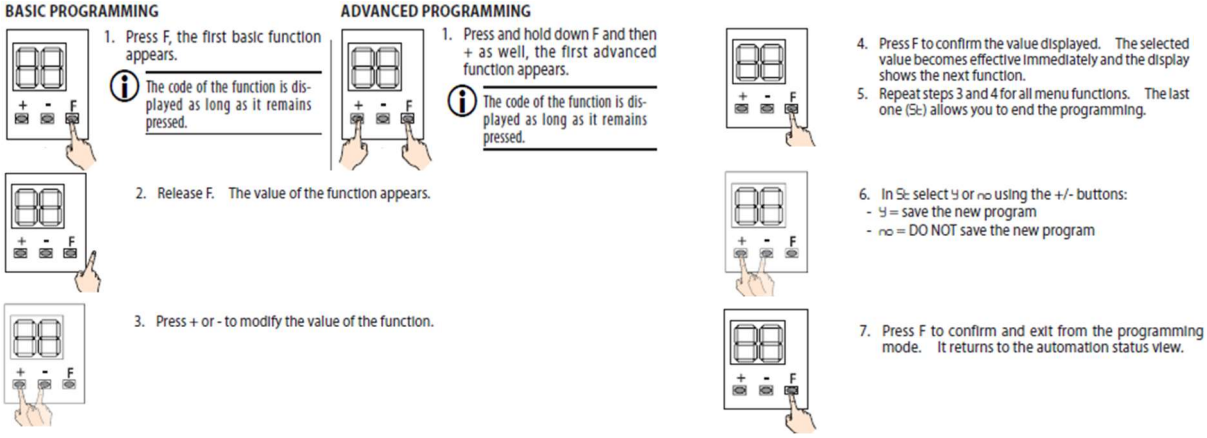


STEP 4

The A951 uses an on-board programming system comprising of a display and function buttons. The display will invert to display the correct way up depending whether it is mount on a R/H or L/H door.

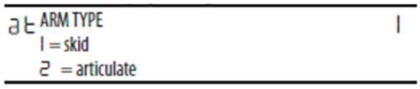
Programming of the unit can also be undertaken via the KP Evo, which will be required if using the Master/Slave functionality.

Please see below for a brief illustration on using the on-board programming function buttons for either Basic Programming or Advanced Programming.



STEP 5

Depending on the arm used, adjust parameter "at" in Basic Programming as per below.



STEP 6

Now perform a Setup on the A951 by going into Advanced Programming as above and navigate to parameter "tL" (see below) and then holding "+" and "-" until the "tL" begins to flash. When the buttons are released the display will briefly change to "LO" and then to "L1" and the door will begin to close. Once the door is fully closed, the display will change to "L2" and the door will begin to open. Once the door is fully open, Setup will complete and the display will show "03" for 2 seconds then the door will shut and display will show "00". Please note that a SETUP can only be complete if the unit is in Automatic Mode (toggle switch on the side in the "0" position or main screen on KP Evo displaying "Auto Bi Dir" before proceeding into the menu structure).

ADVANCED programming	Default
tL SET-UP Carry out the SET-UP procedure (see § 7.4)	

Setup will only need to be carried out once if NOT opening against a wall or a barrier and XPB ON's are subsequently used (please see Step 8 for further details).

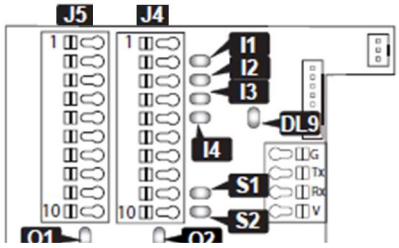
STEP 7

Adjust parameters "CS", "OS" and "PA" as required in Basic Programming if using the on-board programming, refer to pages 37 and 38 on the manual if using the KP Evo. Please note that typical minimum opening time is 3.5 Secs for fully closed to fully open.

CS	CLOSING SPEED Adjustable from 1 (minimum) to 10 (MAX)	3
OS	OPENING SPEED Adjustable from 1 (minimum) to 10 (MAX)	10

PA	PAUSE TIME Adjusts the pause time of the door when opened by a command, before closing automatically. Adjustable from 0 to 30 s	2

At this point the door should be operational and a short across Terminals 2 (I1 – Input 1) and Terminal 1 (- Common) should trigger the automation of the door (This should also illuminate I1 Led).



STEP 8

Nearly all installations will require the use of On Door Safety Sensors, be it the more basic XPB ON's (XPB 34, XPB 90-1 or XPB 90-2) or the more advanced XPB SCAN's (also known as FLATSCAN's). Please use the wiring instructions as per page 28 or page 29 respectively of the manual. You will also be required to adjust the "P1" and "P2" parameters in Advanced Programming as per below.

P1	INPUT S1 CONFIGURATION 20 = CLOSING SAFETY (NC)	20

P2	INPUT S2 CONFIGURATION 21 = OPENING SAFETY (NC)	21

If you are using XPB Scan's, please follow the instruction manual provided with them to run their own configuration setup to determine the width of the door and any objects that may or may not be in the detection range of the laser curtain such as walls or barriers.

If using the XPB ON's and opening against a wall or barrier, you will need to enable PARTIAL STOP SEC in Basic Programming via the on-board display or if using the KP Evo – Spanner, Programming, Installation, Partial Stop Sec, Enable.

BASIC Programming	Default
dS PARTIAL STOP SEC. Defines the detection area of the safety in opening no = obstacle detection active over the entire opening stroke. Y= obstacle detection NOT active in proximity to the opening stop	no

Enabling Partial Stop Sec when using the XPB ON's, you will need to re-run Setup so that the A951 can identify where Opening Stop Safety will be triggered to enable Creep mode from that position.

Double Door Configuration – Master/Slave

If you are installing the operators on a double door, you will need to enable the Master/Slave functionality of the A951. To do this, you will require the use of the Communications Card (Part Number: 390166) and a KP Evo (Part Number: 790022) as it is NOT POSSIBLE to achieve this otherwise.

STEP 1

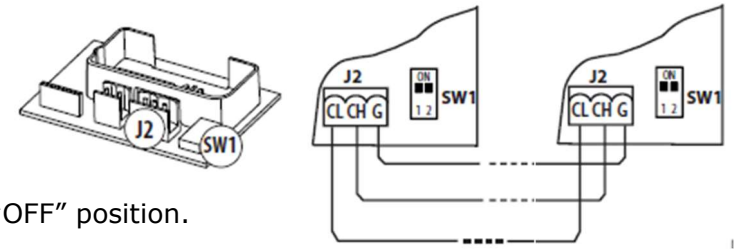
First set up the operators independently of each other by following Steps 1 though to 8 on page 2 and 3. Please note that opening commands are to be connected to the operator designated as Master (the first to open). Please ensure that the Motion Parameters (See below) are identical between the two A951 operators.

2 MOTION
1 OPENING...2 CLOSING

1 SPEED	1...10	
2 SLOWDOWN	SLOWDOWN SPACE 0°...90°	SLOWDOWN SPEED 1...3
3 STRENGTH	0...10	
4 STRENGTH DURATION	0.1...3.0 s	
5 ACCELERATION	1...10	
6 DECELERATION	1...10	

STEP 2

Link the two A951's together using a 3-Core Cable (ideally Shielded, CAT5e as used for the KP Evo is suitable). Please ensure to check that DIPSWITCH "1" and "2" are in the "ON" position in both the Master and Slave operator.



Please note that Factory default is in the "OFF" position.

STEP 3

Plug the KP Evo into the operator that you designate to be the SLAVE (i.e. not receiving the opening commands). Using the KP Evo, go to Spanner, Programming and then into Intercom (see below) and performing the following configuration changes.

6 INTERCOM
1 FUNCTION
DISABLED
INTERMODE
INTERLOCK — WITH MEMORY / WITHOUT MEMORY
2 LEAVES
2 LEAVES + INTERBLOCK — WITH MEMORY / WITHOUT MEMORY
2 MASTER/SLAVE NR.

Set Function to "2 Leaves".

Set Master/Slave Nr to "2 Slave".

Unplug KP Evo from SLAVE and plug into MASTER. (Please note that there is no need to power down)

STEP 4

Using the KP Evo, go to Spanner, Programming and then into Intercom (as above) and performing the following configuration changes.

6 INTERCOM
1 FUNCTION
DISABLED
INTERMODE
INTERLOCK — WITH MEMORY / WITHOUT MEMORY
2 LEAVES
2 LEAVES + INTERBLOCK — WITH MEMORY / WITHOUT MEMORY
2 MASTER/SLAVE NR.
3 INTERCOM REG.
4 NODE LIST

Set Function to "2 Leaves".

Set Master/Slave Nr to "1 Master".

In INTERCOM REG. select "YES" to perform INTERCOM REGISTRATION. If you can't see 3 and 4 above on KP Evo display, you are either still plugged into the Slave or not configured correct on Master/Slave Nr setting.

If wired correctly and DS2 set correctly as above, you should now be able to go into NODE LIST and see "02" in the display.

STEP 5

Adjust LEAF DELAY as required (See below). KP Evp – Spanner, Programming, Installation.

5 LEAF DELAY 0°...90°