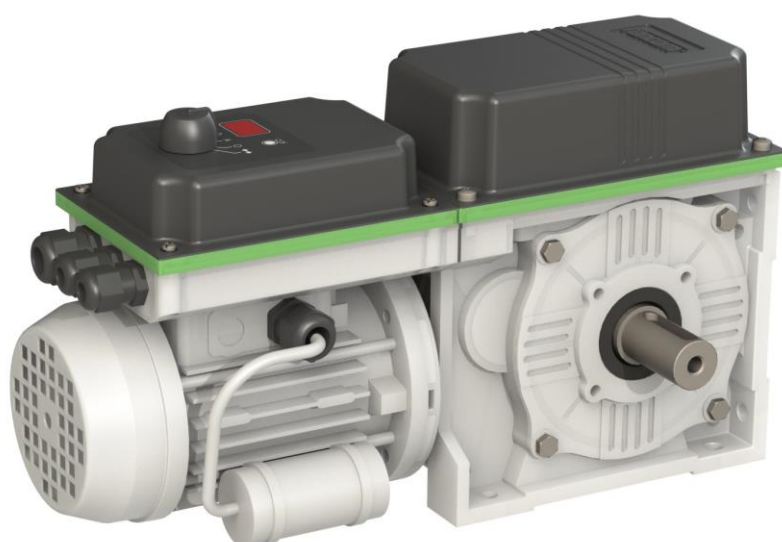


# iM.125



## PRODUCT APPLICATION MANUAL

GB150714  
Art. Nr. 35332015 + 35332016

The Fancom iM.125 is used to control air inlet valves and air inlets. In combination with a Fancom controller and the Fancom Fantura air inlets or Fancom Greenline inlets this actuator provides a perfect air intake system where you do not have to worry about. With a selection switch you can easily choose the type of the connected air inlets (Fantura air inlets or Fancom Greenline inlets).



Description	Article number
iM.125 200-230V 50Hz	34331015
iM.125 200-230V 60Hz	34331016
Mounting bracket set LM.125	5859007
Cable reel Ø50 + 2,5 meter cable	5450051
Cable reel Ø80 + 2,5 meter cable	5450012
Cable reel Ø106 + 2,5 meter cable	5450013
CE protection cover for cable reel Ø50	2459280
CE protection cover for cable reel Ø80	2459132
CE protection cover for cable reel Ø106	2459265
LM.125 belt drum 55 mm + belt 2 m	5450105
LM.125 belt drum 80 mm + belt 3 m	5450106
LM.125 belt drum 100 mm + belt 4 m	5450107
CE protection cover belt drum LM.125	5459050
Pipe/chain connection LM.125	5459022

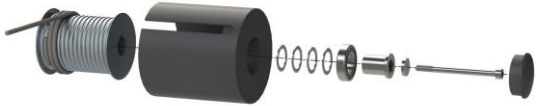



## Features

- The iM.125 can be used for controlling the Fantura air intake system, traditional air intake system and curtains.
- Also, the motor can be used as a winch (for example water and feedlines).
- Two-driven shaft, to which a cable reel or pipe/chain connection can be mounted.
- For motors, installed within reach (lower than 2.5 m above subsurface) of humans or animals a CE cover is available.
- The iM.125 can be controlled via a 0-10V/10-0V voltage input for an analogue control OR via a digital control via the I/O-Network\*. No signal loss. Saves an analogue output on the controller.  
\* Maximum 31 network modules per I/O-Network
- Built-in digital feedback for position feedback. By the lack of a carbon track, used in a traditional feedback, the lifetime is far longer.
- The iM.125 has a rotary switch with 5 positions (open – 0 – auto – 0 – closed). The position of the switch determines the functioning of the actuator
- Alarm relay

- Extensive alarm via I/O-net and manual operations possibilities:
  - Via manual operation on the actuator.
  - Via external manual operation (with 10K potentiometer)
- Ability to calibrate the iM.125 without removing a cover by a push button.
- Built-in limit switches with easy adjustment of the end position without special tools.
- Open and robust set up for the different components. Easy access and wiring.
- A temperature measurement that can also be used by a Fancom climate controller is available. This option is only available if the iM.125 is controlled via I/O-net.
- 7-segment display that displays the status of the programme. This makes adjustment of the actuator a lot easier.
- The iM.125 is maintenance free.
- Self-recovering thermal protection (clixon) which switches off the actuator in the event of overheating. The actuator will automatically re-activate when it has cooled down.
- The actuator can be mounted in different positions. A quick, easy and cheap installation is possible by placing pins through the corners of the housing (see LM mounting set).

## Accessoires

Article	Image
<p>5859007 Mounting bracket set LM.125/250</p> <p>With the optional mounting bracket the actuator is quickly and easy to install.</p>	
<p>5450051 Cable reel Ø50 + 2,5 meter cable            5450012 Cable reel Ø80 + 2,5 meter cable            5450013 Cable reel Ø106 + 2,5 meter cable</p> <p>The iM.125 has a two-driven shaft, to which a cable reel to wind can be mounted.</p>	

<p>2459280 CE protection cover for cable reel Ø50  2459132 CE protection cover for cable reel Ø80  2459265 CE protection cover for cable reel Ø106</p> <p>If the actuator is hung within reach of people or animals (less than 2.5 m / 8.2 ft above the floor) a CE protection cover must be mounted.</p>	
<p>5450105 LM.125 belt drum 55 mm + belt 2 m  5450106 LM.125 belt drum 80 mm + belt 3 m  5450107 LM.125 belt drum 100 mm + belt 4 m</p> <p>The iM.125 has a two-driven shaft to which a belt drum can be mounted.</p>	
<p>5459050 CE protection cover for belt drum LM.125/250</p> <p>If the actuator is hung within reach of people or animals (less than 2.5 m / 8.2 ft above the floor) a CE protection cover must be mounted.</p>	
<p>5459022 Pipe/chain connection LM.125</p> <p>The iM.125 has a two-driven shaft to which a pipe/chain connection to drive a 1" pipe can be mounted.</p>	

<p>5045011.01 Temperature sensor SF.7</p> <p>As an I/O network module, the iM.60 can measure the temperature itself. This value can be used the control computer or for independent regulation in case of emergency.</p>	
<p>5130150 Manual control box iM.60</p> <p>With this manual override kit, it is possible to control a iM.60 on distance.</p>	

## Connection

← 3 x 2,5 mm <sup>2</sup>	_____	Main voltage 230 Vac
← 2 x 0,8 mm (0,5 mm <sup>2</sup> )	_____	Manual potentiometer (option)
← 2 x 0,8 mm (0,5 mm <sup>2</sup> )	_____	Maximum thermostat (option)
← 2 x 0,8 mm (0,5 mm <sup>2</sup> )	_____	Power failure position
<b>I/O-net module (extra temperature)</b>		
← 2 x 0,8 mm (0,5 mm <sup>2</sup> )	_____	Temperature sensor (option)
<b>Traditional (analog control)</b>		
← 2 x 0,8 mm (0,5 mm <sup>2</sup> )	_____	Voltage input (0-10/10-0V or Temperature sensor (option) with I/O-net control
↘ I/O net*	_____ →	I/O-network communication

\* GreenLink: 2 x 0,8 mm<sup>2</sup> twisted pair is recommended  
Maximum 31 I/O-net modules and 1 controller in 1 network

## Technical specifications

<b>Mains power supply</b>		
	<b>50Hz</b>	<b>60Hz</b>
Mains voltage	230 V AC ( $\pm 10\%$ )	240 V AC ( $\pm 10\%$ )
Maximum current	1.0 A	1.2 A
Power consumption	0,09 KW	0,09 KW
Thermal Overload protection	YES	YES
Capacitor	10 uF	10 uF
<b>Inputs</b>		
Analog in	Voltage- or temperature measuring Voltage 0-10V, 10-0V, temperature sensor type S7 (-50°C to 110°C)	
I/O network	Digital	
PF (PowerFail)	Normally open contact	
Position feedback actuator	CPS (contactless position sensor)	
Limit switches	30Vac / 60Vdc , max 1A	
<b>Outputs</b>		
Alarm relay	30 V AC / 60 V DC, max. 2A	
<b>Actuator</b>		
Running speed at 50 Hz	2.0 RPM	
Running speed at 60 Hz	2.4 RPM	
Torque	125 Nm	
Tensile force, cable reel $\varnothing 50$ mm	450 kg	
Tensile force, belt drum $\varnothing 55$ mm	450 kg	
Tensile force, cable reel $\varnothing 80$ mm	300 kg	
Tensile force, belt drum $\varnothing 80$ mm	300 kg	
Tensile force, cable reel $\varnothing 106$ mm	225 kg	
Tensile force, belt drum $\varnothing 100$ mm	225 kg	
Min. -max number of revolutions with worm wheel	1.5 - 3.0	
Min. -max number of revolutions without worm wheel	3.0 - 12.0	
Number of revolutions depending on worm wheel	1.5 - 3.0 - 12.0 rev	
Min. -max stroke cable reel $\varnothing 50$ mm	23 - 49 - 195 cm	
Min. -max stroke belt drum $\varnothing 55$ mm	26 - 55 - 240 cm	
Min. -max stroke cable reel $\varnothing 80$ mm	35 - 75 - 300 cm	
Min. -max stroke belt drum $\varnothing 80$ mm	38 - 82 - 330 cm	
Min. -max stroke cable reel $\varnothing 106$ mm	50 - 100 - 400 cm	
Min. -max stroke belt drum $\varnothing 100$ mm	50 - 100 - 400 cm	
<b>Manual control</b>		
Rotary switch	Closed – 0 – A – 0 - Open	
Potentiometer input (for remote manual operation) and/or	8k $\Omega$ - closed, 0k $\Omega$ - open	
Max. thermostat	$\infty$ - no manual operation	
<b>Oil</b>		
Type	Shell Omala S4 WE 320 synthetic	
Amount iM.125	0.4 l	

<b>Housing</b>				
Plastic housing with screw closure		IP54		
Insulation class		F		
Dimensions (lxwxh)		362 x 197 x 210 mm		
Weight (unpackaged)		9,6 kg		
<b>Ambient climate</b>				
Operating temperature range		0°C to +40°C		
Storage temperature range		-10°C to +50°C		
Relative humidity		< 95%, not condensing		
<b>I/O network</b>				
Possibility of communication via the I/O-network. One control computer and a maximum of 31 network modules may be connected to the I/O network. Each connected network module has a unique address. After an address has been changed, the network module should always be restarted (power off-on).				
<b>Output / input type</b>				
<b>Output type</b>		<b>iM.125 address sequence number</b>		
Air inlet position		"iM.125 address".01		
<b>Input type</b>				
Analogue measurement (temp.)		"iM.125 address".01		
Air inlet position measurement		"iM.125 address".02		
<b>Accessoires</b>				
Cable reel		ø50, ø80, ø106 mm		
Belt drum		ø55, ø80, ø100 mm		
CE protection cover for cable reel		ø50, ø80, ø106 mm		
CE protection cover for belt drum		Universal cover for all belt drums		
<b>Controllable number of inlets*</b>				
Type connection	Inlet 1500 wall	Inlet 3500 wall	Fantura inlet >-5°C	Fantura inlet >-35°C
Cable reel ø50mm	110	75	75	75
Cable reel ø80mm	75	50	50	50
Cable reel ø106mm	55	35	35	35
Belt drum ø55mm	110	75	75	75
Belt drum ø80mm	75	50	50	50
Belt drum ø100mm	55	35	35	35

\* The number of intake valves is based on a system installed according to the manual using a 5mm main cable with one bend for the counter weight and no additional resistance.

## Dimensions

