Quickstepper FSS





Quickstepper FSS

Key features

Description

- Pneumatic/mechanical sequencer with 12 steps and start logic circuits
- Ready-to-install sequence controller
- Acknowledgement-controlled
 motion sequences

Functions

- Step counter for steps 1 to 12 with upward counting function.
- White pressure indicator for activated output Pn.
- Blue pressure indicator for acknowledgement signal from last step to be executed (INPUT).
 Slide switch OUTPUT:
- When the switch outputs are disabled. The control steps can be worked through manually. Only the selected step is activated. When the switch is set to 1, pressure is fed to the activated output.

The Quickstepper is a mini control system with 12 switching steps. Each input Xn is assigned an output An. Only one output at a time is fed with compressed air, in an order corresponding to the sequence of the switching steps. The other outputs are exhausted at this time. The Quickstepper features a highly safe mode of operation as each given switching step cannot begin until the preceding step has been executed and acknowledged. If the pulses fed to the input L are too short, the output A is disabled.

- Pushbutton MAN.STEP (inching operation): Advance to next step or select a switching step.
- Port MAN/P: Port for pilot air P. This signal can also be obtained from an external MAN preselect.
- Safety: When the port L (reset) is activated, the step indicator always advances

to the last step (12). This is important when the controller is at a standstill. The Quickstepper has the additional safety feature that it will switch only when a continuous signal is present at the AUTO port. When an AUTO signal is present, inching operation (step-by-step manual switching) is not possible. The OUTPUT preselect is then disabled. This ensures that no manual intervention can be made while the Quickstepper is running in AUTOMATIC mode. Only one output at a time is fed with compressed air. All other outputs are exhausted.

FESTO

Quickstepper FSS Technical data

Quicksteppers can be replaced quickly. The tubing is left in place.



General technical data		
Operating medium		Filtered, unlubricated compressed air, grade of filtration 5 μ m
Design		Sequencer with 12 switching steps (additive)
Nominal size of inputs	[mm]	2.5
and outputs		
Standard nominal flow rate	[l/min]	60
Acknowledgement response	[bar]	≥1.5
pressure		
Acknowledgement drop-off	[bar]	≤0.5
pressure		
Min. acknowledgement pulse	[ms]	50
length		
Max. step frequency	[Hz]	12
Ambient temperature	[°C]	
Pneumatic connection	Р	Barbed fitting for plastic tubing with 4 mm standard ID
	L	Barbed fitting for plastic tubing with 3 mm standard ID
	Inputs	
	AUTO	
	MAN/P	
Type of mounting		On mounting frame 2n
		Front panel mounting
Weight	[g]	450
Materials		
Housing		ABS
Seals		NBR

Operating and environmental conditions				
Operating pressure	[bar]	2 6		
Ambient temperature	[°C]	5 40		
Storage temperature	[°C]	-40 +60		

Quickstepper FSS

Technical data





Circuit diagram

Rear side of Quickstepper-C

- MAN/P
- Pilot air port. This signal can also be obtained from an external MAN preselect.

- Note

If an external start is used, the START button on the front panel must be locked out (to disable the internal START function). This is important, since safety regulations specify that it must be possible to initiate a start from one place only.

• L_{IN}

For an external reset signal. Note: The RESET button on the front panel can be locked out to disable the internal RESET function.

- EMERGENCY-STOP If no signal is present or the pilot air supply fails, the outputs A1 ... A12 are blocked. They remain disabled even if an emergency stop pushbutton which has been pressed is released.
- P_{IN}
 - Pilot pressure.
- Stop_{IN} External signal for stop within cycle.
 O position_{IN}
 - Direct common initial position.

• END_{IN} External signal for stop at end of cycle.

Quickstepper FSS Technical data

FESTO



Ordering data

Oluening uata	
	Part No. Type
Quickstepper	15609 FSS-12-C

Quickstepper FSS Accessories

Panel frame FSS-F-12 For front panel mounting

Required front panel aperture 🗆 92 mm Panel thickness max. 13 mm



Ordering data			
	Weight [g]	Part No.	Туре
Panel frame	110	11570	FSS-F-12

Adapter FSS-KM-8-12

For bridging unused Quickstepper inputs and outputs. The blanking strip is cut to length according to the number of unused steps and pushed onto the barbed fittings.

The P connection is made via a tubing connector to the lowest step which is to be bypassed. The plug is always inserted at step 12.



Ordering data		
	Part No.	Туре
Adapter	13830	FSS-KM-8-12

FESTO

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components Complete custom engineered solutions



Custom Control Cabinets Comprehensive engineering support and on-site services



Complete Systems Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical Electromechanical actuators, motors, controllers & drives



Pneumatics Pneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices PLC's, operator interfaces, sensors and I/O devices

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.





© Copyright 2008, Festo Corporation. While every effort is made to ensure that all dimensions and specifications are correct, Festo cannot guarantee that publications are completely free of any error, in particular typing or printing errors. Accordingly, Festo cannot be held responsible for the same. For Liability and Warranty conditions, refer to our "Terms and Conditions of Sale", available from your local Festo office. All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, electronic, mechanical, photocopying or otherwise, without the prior written permission of Festo. All technical data subject to change according to technical update.



FSC Printed on recycled paper at New Horizon Graphic, Inc., FSC certified as an environmentally friendly printing plant.

Festo North America

Festo Regional Contact Center

5300 Explorer Drive Mississauga, Ontario L4W 5G4 Canada

USA Customers:

For ordering assistance, Call: 1.800.99.FESTO (1.800.993.3786) Fax: 1.800.96.FESTO (1.800.963.3786) Email: customer.service@us.festo.com For technical support, Call: 1.866.GO.FESTO (1.866.463.3786) Fax: 1.800.96.FESTO (1.800.963.3786)

Email: product.support@us.festo.com Canadian Customers:

 Call:
 1.877.GO.FESTO (1.877.463.3786)
 Fax:
 1.877.FX.FESTO (1.877.393.3786)

 Email:
 festo.canada@ca.festo.com
 Fax:
 festo.canada@ca.festo.com

USA Headquarters

Festo Corporation 395 Moreland Road P.O. Box 18023 Hauppauge, NY 11788, USA www.festo.com/us

USA Sales Offices

Appleton North 922 Tower View Drive, Suite N Greenville, WI 54942, USA

Boston 120 Presidential Way, Suite 330 Woburn, MA 01801, USA

Chicago 1441 East Business Center Drive Mt. Prospect, IL 60056, USA Dallas

1825 Lakeway Drive, Suite 600 Lewisville, TX 75057, USA

Detroit – Automotive Engineering Center 2601 Cambridge Court, Suite 320 Auburn Hills, MI 48326, USA

New York 395 Moreland Road Hauppauge, NY 11788, USA Silicon Valley

4935 Southfront Road, Suite F Livermore, CA 94550, USA

Central USA

Festo Corporation 1441 East Business Center Drive Mt. Prospect, IL 60056, USA Phone: 1.847.759.2600 Fax: 1.847.768.9480



United States



USA Headquarters, East: Festo Corp., 395 Moreland Road, Hauppauge, NY 11788 Phone: 1.631.435.0800; Fax: 1.631.435.8026; Email: info@festo-usa.com www.festo.com/us

Canada



Headquarters: Festo Inc., 5300 Explorer Drive, Mississauga, Ontario L4W 5G4 Phone: 1.905.624.9000; Fax: 1.905.624.9001; Email: festo.canada@ca.festo.com www.festo.ca

Mexico



Headquarters: Festo Pneumatic, S.A., Av. Ceylán 3, Col. Tequesquinahuac, 54020 Tlalnepantla, Edo. de México Phone: 011 52 [55] 53 21 66 00; Fax: 011 52 [55] 53 21 66 65; Email: Festo.mexico@mx.festo.com www.festo.com/mx

 Western USA

 Festo Corporation

 4935 Southfront Road,

 Suite F

 Livermore, CA 94550, USA

 Phone: 1.925.371.1099

 Fax:
 1.925.245.1286



Festo Worldwide

Argentina Australia Austria Belarus Belgium Brazil Bulgaria Canada Chile China Colombia Croatia Czech Republic Denmark Estonia Finland France Germany Great Britain Greece Hong Kong Hungary India Indonesia Iran Ireland Israel Italy Japan Latvia Lithuania Malaysia Mexico Netherlands New Zealand Norway Peru Philippines Poland Romania Russia Serbia Singapore Slovakia Slovenia South Africa South Korea Spain Sweden Switzerland Taiwan Thailand Turkey Ukraine United States Venezuela

www.festo.com