

## Polysulfone Paddle Switch Model FN



- ◆ Switching Range:  
18 - 36 to 72 - 108 L/min
- ◆ Pressure: max. 10 bar
- ◆ Temperature: max. 105°C
- ◆ Accuracy:  $\pm 20\%$  of meas. value
- ◆ Repeatability:  
 $\pm 3\%$  f. s.
- ◆ Material:  
Polysulfone, transparent
- ◆ Connection:  
G 1 for nominal pipe size  
from NW 32

**Cost Effective  
Measurement Technology**

INTERIN GmbH  
Nordring 24  
D-65719 Hofheim/Ts.  
Tel: +49 (0)6192 958 612-70  
Fax: +49 (0)6192 958 612-99  
E-Mail: [info@interin.de](mailto:info@interin.de)  
Internet: [www.interin.de](http://www.interin.de)

# Polysulfone Paddle Switch Model FN

No responsibility taken for errors; subject to change without prior notice. 08 / 2007

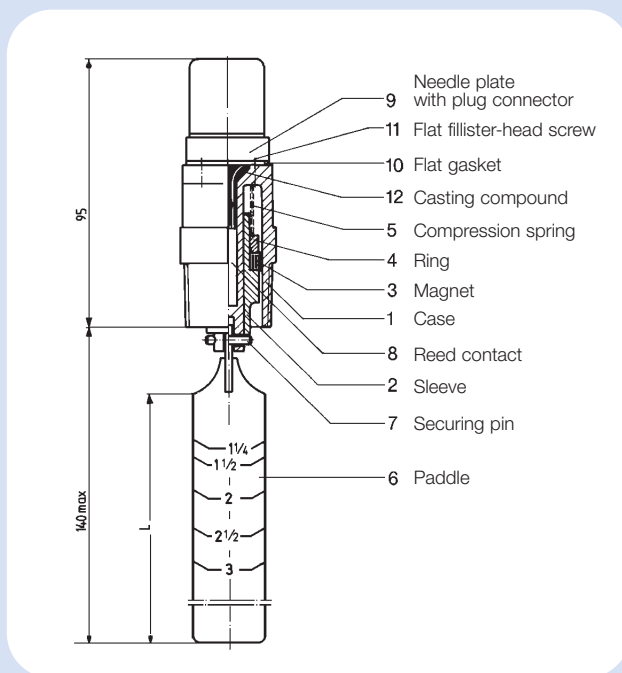
## Description

INTERIN paddle type flow switches of model FN combine exceptional reliability with outstanding value. The units can be installed in pipelines of internal diameter 1 1/4" and above. There are no diaphragms, sealing bellows or O-rings in these polysulfone units and they, therefore require minimum of maintenance.

Pressure drop in the system is less than 0.1 bar, regardless of internal diameter. Transparent polysulfone housing allows the unit to be observed during operation.

FN is available as N/O or N/C contact. Easy assembly simply seals a standard T-piece or reducer. Media flowing in any direction moves the paddle, which rotates an eccentric, which in turn raises an assembly within the unit. This assembly has a permanent magnet mounted within it. This enables the magnet to activate a hermetically sealed reed switch. The flow rate set-point is determined by the length of the paddle. During installation, the paddle length can be reduced to adjust the set point.

## Dimensions



## Technical Details

Material:	Polysulfone, transparent
Connection:	G 1
Medium temperature:	max. 105 °C
Operating pressure:	max. 10 bar
Max. pressure drop:	0.1 bar
Adjustment accuracy:	± 20% of measured value
Repeatability:	± 3% f. s.
Other materials, exposed to the medium:	St. Steel, Ceramic magnet
Electr. connection:	unit plug DIN 43 650
Protection type:	IP 65
Switch:	N/O or N/C contact, hermetically sealed, magnetically actuated switch
Switching parameters:	Load max. 40 VA/W Current max. 2 A Voltage max. 230 V <sub>AC/DC</sub>

The flow throughput switching point is determined by the length of the paddle. During fitting the paddles are adapted to the nominal pipe size by cutting at the paddle marking (see table).

## Applications

- ◆ Monitoring cooling circuits
- ◆ Dry running protection for pumps
- ◆ Prevention of low water levels
- ◆ Monitoring pipe fractures
- ◆ Monitoring lubricant circuits

## Order Details (Example: FN-1401)

Nom. Pipe Size (customer side)	Cutting Mark (L)	Switch point		Contact function (with rising flow rate)	Order No.
		L/min H <sub>2</sub> O falling	L/min H <sub>2</sub> O rising		
32	28 mm	18	36	N/O contact	FN-1402
40	35 mm	36	54		
50	47 mm	36	72	N/C contact	FN-1401
65	60 mm	54	90		
80	73 mm	72	108		