

# Flow Switches

## Type **BFS-10-N-AIR** / **BFS-10-O-AIR**

for monitoring volume flow of gaseous media, with or without optical display

### Features

set point continuously adjustable, rugged, low hysteresis, any mounting position, high accuracy and functional safety

### Measuring ranges

0,2...1,3 NI/min to 200...650 NI/min for air

### Applications

Measuring and monitoring of gaseous media, e. g. in cooling systems, test beds, pumps etc.



### Technical Data

BFS-10-N-AIR (without indication)			
Measuring principle:	variable aera flow meter		
<b>Materials:</b>	brass version	stainless steel vers.	
Var. aera flow meter:	brass	1.4571	
Spring:	1.4571	1.4571	
Fitting:	brass, nickel-plated	1.4571	
Housing:	brass, nickel-plated	1.4571	
Magnets:	ferrite	ferrite	
<b>Operating pressure:</b>	brass	VA	Pressure drop
BFS-10-N G1/4:	PN 300 bar	350 bar	0,02...0,2 bar
BFS-10-N G1/2:	PN 300 bar	350 bar	0,02...0,3 bar
BFS-10-N G1:	PN 250 bar	300 bar	0,02...0,4 bar
Operating temp.:	100 °C (standard), 160 °C (option HT)		
Accuracy:	±10% f. s.		
Electrical connection:	plug acc. to DIN EN 175301-803-C (Ex DIN 43650C)		
<b>Contact rating:</b>			
BFS-10-N-AIR G1/4	200 V / 1 A / 20 VA	(NO)	
	200 V / 1 A / 20 VA	(SPDT)	
BFS-10-N-AIR G1/2	230 V / 3 A / 60 VA	(NO)	
	250 V / 1,5 A / 50 VA	(SPDT)	
BFS-10-N-AIR G1	250 V / 3 A / 100 VA	(NO)	
	250 V / 1,5 A / 50 VA	(SPDT)	
Protection class:	IP65 (plug acc. to DIN EN 175301-803-C - Ex DIN 43650C) IP67 (with moulded cable)		
Approvals:	e.g. ATEX, see www.barksdale.de		

### Switch ranges

(air in NI/min)

BFS-10-N-AIR G1/4:	BFS-10-N-AIR G1/2:	BFS-10-N-AIR G1:
0,6...2,2	2,5...10	60...180
1,7...6,0	5,5...20	100...300
2,5...8,0	8,0...30	200...650
3,0...12	10...35	
3,0...22	24...90	
7,0...24	55...220	
12...34	65...240	
16...56	80...300	
20...80	140...525	

### Technical Data

BFS-10-O-AIR (with optical indication)			
Measuring principle:	variable aera flow meter		
<b>Materials:</b>	brass version	stainless steel vers.	
Var. aera flow meter:	brass	1.4571	
Spring:	1.4571	1.4571	
Fitting:	brass, nickel-plated	1.4571	
Display Housing:	alumin., anodized	alumin., anodized	
Glass:	Duran 50	Duran 50	
Magnets:	ferrite	1.4571	
<b>Operating pressure:</b>	brass	VA	Pressure drop
BFS-10-O G1/4:	PN 16 bar	16 bar	0,02...0,2 bar
BFS-10-O G1/2:	PN 16 bar	16 bar	0,02...0,3 bar
BFS-10-O G1:	PN 10 bar	10 bar	0,02...0,4 bar
Operating temp.:	100 °C (standard), 160 °C (option HT)		
Accuracy:	±10% f. s.		
Electrical connection:	plug acc. to DIN EN 175301-803-C (Ex DIN 43650C)		
<b>Contact rating:</b>			
BFS-10-O-AIR G1/4	200 V / 1 A / 20 VA	(NO)	
	200 V / 1 A / 20 VA	(SPDT)	
BFS-10-O-AIR G1/2	230 V / 3 A / 60 VA	(NO)	
	250 V / 1,5 A / 50 VA	(SPDT)	
BFS-10-O-AIR G1	250 V / 3 A / 100 VA	(NO)	
	250 V / 1,5 A / 50 VA	(SPDT)	
Protection class:	IP65 (plug acc. to DIN EN 175301-803-C - Ex DIN 43650C) IP67 (with moulded cable)		
Approvals:	e.g. ATEX, see www.barksdale.de		

### Switch ranges

(air in NI/min) for:

BFS-10-O-AIR G1/4:	BFS-10-O-AIR G1/2:	BFS-10-O-AIR G1:
0,2...1,3	5,5...20	3,0...12
0,5...2,0	7,0...24	7,0...30
0,8...3,0	10...35	12...40
1,5...5,0	10...42	28...125
2,0...8,0		50...200
3,0...12		100...420
3,5...14		120...480

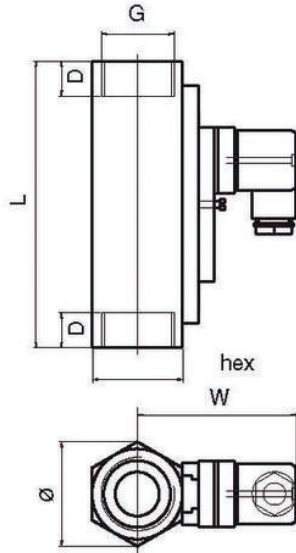
## Flow Switches

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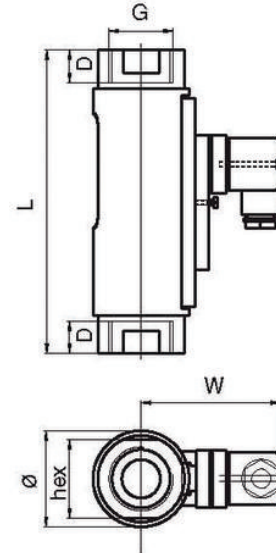
### Dimensions (mm / inch)

Dimensions (in mm)

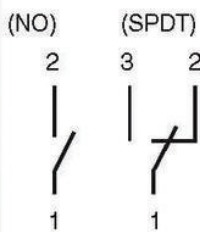
**BFS-10-N-AIR**



**BFS-10-O-AIR**



#### Wiring diagram



(G)	G 1/4	G 1/2	G 1
(hex)	17	27	41
(Ø)	17	31	47
(W)	47	52	76
(D)	10	14	17
(L)	65	90	130
Weight (g)	140	350	1050

(G)	G 1/4	G 1/2	G 1
(hex)	17	27	41
(Ø)	20	32	50
(W)	49	53	77
(D)	10	14	18
(L)	90	114	158
Weight (g)	140	300	900

### Order Code

BFS-10-N-AIR	BFS-10-O-AIR
Brass	Brass
0710-007 BFS-10-N-G1/4-MS-NO-ST	0710-001 BFS-10-O-G1/4-MS-NO-ST
0710-019 BFS-10-N-G1/4-MS-WE-ST	0710-013 BFS-10-O-G1/4-MS-WE-ST
0710-008 BFS-10-N-G1/2-MS-NO-ST	0710-002 BFS-10-O-G1/2-MS-NO-ST
0710-020 BFS-10-N-G1/2-MS-WE-ST	0710-014 BFS-10-O-G1/2-MS-WE-ST
0710-009 BFS-10-N-G1-MS-NO-ST	0710-003 BFS-10-O-G1-MS-NO-ST
0710-021 BFS-10-N-G1-MS-WE-ST	0710-015 BFS-10-O-G1-MS-WE-ST
Stainless Steel	Stainless Steel
0710-010 BFS-10-N-G1/4-SS-NO-ST	0710-004 BFS-10-O-G1/4-SS-NO-ST
0710-022 BFS-10-N-G1/4-SS-WE-ST	0710-016 BFS-10-O-G1/4-SS-WE-ST
0710-011 BFS-10-N-G1/2-SS-NO-ST	0710-005 BFS-10-O-G1/2-SS-NO-ST
0710-023 BFS-10-N-G1/2-SS-WE-ST	0710-017 BFS-10-O-G1/2-SS-WE-ST
0710-012 BFS-10-N-G1-SS-NO-ST	0710-006 BFS-10-O-G1-SS-NO-ST
0710-024 BFS-10-N-G1-SS-WE-ST	0710-018 BFS-10-O-G1-SS-WE-ST

Order number example: Order number + switching range = 0710-012, 60...180 l/min

### Description

NO = normally open	O = with indication	MS = brass	Please specify switching range (see table on page previous) additional to order number.
WE = change-over	N = without indication	SS = stainless steel	