

Flow Switches

BFS-10-N / BFS-10-O

for monitoring liquids, with or without optical display

Features

- set point continuously adjustable
- rugged, low hysteresis, any mounting position,
- high accuracy and functional safety,
- ship approvals available for N-versions

Measuring ranges

- 0,005...0,06 l/min to 60...150 l/min for water

Applications

- Measuring and monitoring of liquids,
- e. g. in cooling systems, test beds, pump protection, fire fighting sprinkler systems etc.



Technical Data

BFS-10-N (without indication)			
Measuring principle:	variable aera flow meter		
Materials:	brass version	stainless steel vers.	
Var. aera flow meter:	brass	1.4571	1.4571
Spring:	1.4571	1.4571	1.4571
Spring size G1":	----	1.4310	
Fitting:	brass, nickel-plated	1.4571	
Housing:	brass, nickel-plated	1.4571	
Magnets:	ferrite	ferrite	
Operating pressure:	brass	SS	Pressure drop
BFS-10-N G1/4:	100 bar	350 bar	0.02...0.2 bar
BFS-10-N G1/2:	100 bar	350 bar	0.02...0.3 bar
BFS-10-N G1:	100 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 (DIN 43650C)		
Contact rating:			
BFS10-N G1/4	200 V / 1 A / 20 VA	(NO/NC)	
	200 V / 1 A / 20 VA	(WE), SPDT	
BFS-10-N G1/2	230 V / 1.5 A / 60 VA	(NO/NC)	
	230 V / 1.5 A / 50 VA	(WE), SPDT	
BFS-10-N G1	250 V / 3 A / 100 VA	(NO/NC)	
	250 V / 1.5 A / 50 VA	(WE), SPDT	
Protection class:	IP65 (plug acc. to DIN EN 175301-803 former DIN 43650C), IP67 (with moulded cable)		
Approvals:	e.g. ATEX, DNV, BV,... see www.barksdale.de		

BFS-10-O (with optical indication)			
Measuring principle:	variable aera flow meter		
Materials:	brass version	stainless steel vers.	
Var. aera flow meter:	brass	1.4571	1.4571
Spring:	1.4571	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	
Operating pressure:	brass	SS	Pressure drop
BFS-10-N G1/4:	16 bar	16 bar	0.02...0.2 bar
BFS-10-N G1/2:	16 bar	16 bar	0.02...0.3 bar
BFS-10-N G1:	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 (former DIN 43650C)		
Contact rating:			
BFS-10-O G1/4	200 V / 1 A / 20 VA	(NO/NC)	
	200 V / 1 A / 20 VA	(WE), SPDT	
BFS-10-O G1/2	230 V / 1.5 A / 60 VA	(NO/NC)	
	230 V / 1.5 A / 50 VA	((WE), SPDT	
BFS-10-O G1	250 V / 3 A / 100 VA	(NO/NC)	
	250 V / 1.5 A / 50 VA	(WE), SPDT	
Protection class:	IP65 (plug acc. to DIN EN 175301-803 former DIN 43650C), IP67 (with moulded cable)		
Approvals:	see www.barksdale.de , ATEX not available for version with optical indication.		

Switch ranges (water in l/min)

BFS-10-N G1/4	BFS-10-N G1/2	BFS-10-N G1
0.005...0.06	0.02...0.2	10...30
0.04...0.13	0.2...0.6	15...45
0.1...0.6	0.4...1.8	20...60
0.2...1.2	0.8...3.2	30...90
0.4...2.0	2.0...7.0	60...150
0.5...3.0	3.0...13	
1.0...5.0	4.0...20	
	8.0...30	

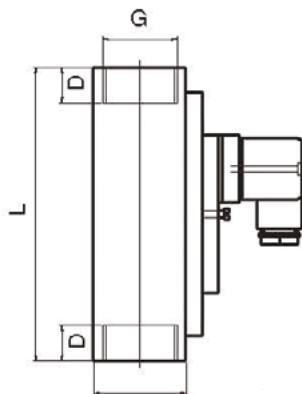
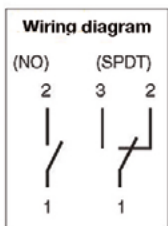
BFS-10-O G1/4	BFS-10-O G1/2	BFS-10-O G1
0.005...0.06	0.2...0.5	8.0...20
0.025...0.13	0.3...1.0	9.5...24
0.1...0.6	0.7...2.0	12...28
0.2...1.2	1.6...4.0	30...90
0.4...2.0	3.0...8.0	60...150
0.5...3.0	4.5...12	
1.0...5.0	6.0...15	

Flow Switches

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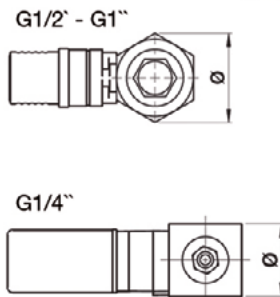
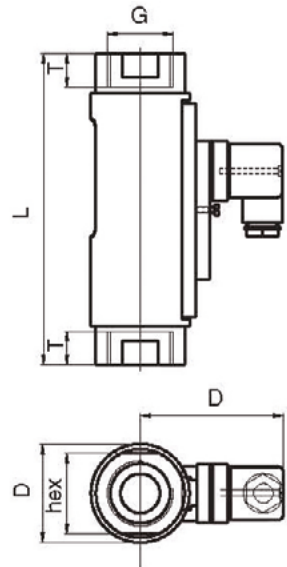
Dimensions (mm / inch)

BFS-10-N



(G)	G 1/4	G1/2	G 1
(Ø)	17	31	50
(W)	47	52	72
(D)	10	14	17
(L)	65	90	158
Weight (g)	140	350	1050

BFS-10-O



(G)	G 1/4	G1/2	G 1
(hex)	17	27	41
Ø	20	32	50
(W)	49	53	77
(D)	10	14	17
(L)	90	114	158
Weight (g)	140	300	900

Order Numbers

BFS-10-N	BFS-10-O
Brass	Brass
0711-256 BFS-10-N-G1/4-MS-NO-ST	0711-250 BFS-10-O-G1/4-MS-NO-ST
0711-338 BFS-10-N-G1/4-MS-WE-ST	0711-332 BFS-10-O-G1/4-MS-WE-ST
0711-257 BFS-10-N-G1/2-MS-NO-ST	0711-347 BFS-10-O-G1/2-MS-NO-ST
0711-339 BFS-10-N-G1/2-MS-WE-ST	0711-348 BFS-10-O-G1/2-MS-WE-ST
0711-258 BFS-10-N-G1-MS-NO-ST	0711-252 BFS-10-O-G1-MS-NO-ST
0711-340 BFS-10-N-G1-MS-WE-ST	0711-334 BFS-10-O-G1-MS-WE-ST
Stainless Steel	Stainless Steel
0711-259 BFS-10-N-G1/4-SS-NO-ST	0711-253 BFS-10-O-G1/4-SS-NO-ST
0711-341 BFS-10-N-G1/4-SS-WE-ST	0711-335 BFS-10-O-G1/4-SS-WE-ST
0711-260 BFS-10-N-G1/2-SS-NO-ST	0711-349 BFS-10-O-G1/2-SS-NO-ST
0711-342 BFS-10-N-G1/2-SS-WE-ST	0711-350 BFS-10-O-G1/2-SS-WE-ST
0711-261 BFS-10-N-G1-SS-NO-ST	0711-255 BFS-10-O-G1-SS-NO-ST
0711-343 BFS-10-N-G1-SS-WE-ST	0711-337 BFS-10-O-G1-SS-WE-ST

Order number example: Order number + switching range = 0711-339, 2,0...7,0 l/min

Note 1): BFS-10-N: versions WE G1" and WE G1/4" not available with ATEX

Note 2): BFS-10-O: ATEX not available with optical indication

Description

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