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, pumps etc.

Technical Data

BFS-10-N (without indication)				
Measuring principle:	variable aera flow meter			
Materials: Var. aera flow meter: Spring: Fitting: Housing: Magnets:	brass version brass 1.4571 brass, nickel-plated brass, nickel-plated ferrite		stainless steel vers. 1.4571 1.4571 1.4571 1.4571 ferrite	
Operating pressure: BFS-10-N G1/4: BFS-10-N G1/2: BFS-10-N G1:	brass 300 bar 300 bar 250 bar	MS GL 100 bar 100 bar 100 bar	SS 350 bar 350 bar 300 bar	Pressure drop 0,02...0,2 bar 0,02...0,3 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: BFS-10-N G1/4 BFS-10-N G1/2 BFS-10-N G1	 200 V / 1 A / 20 VA 200 V / 1 A / 20 VA 230 V / 3 A / 60 VA 250 V / 1,5 A / 50 VA 250 V / 3 A / 100 VA 250 V / 1,5 A / 50 VA		 (NO) (SPDT) (NO) (SPDT) (NO) (SPDT)	
Protection class:	IP65 (plug acc. to DIN EN 175301-803 formaly DIN 43650C) IP67 (with moulded cable)			
Approvals:	e.g. ATEX, GL, BV,... see www.barksdale.de			

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	

Technical Data

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

Switch ranges

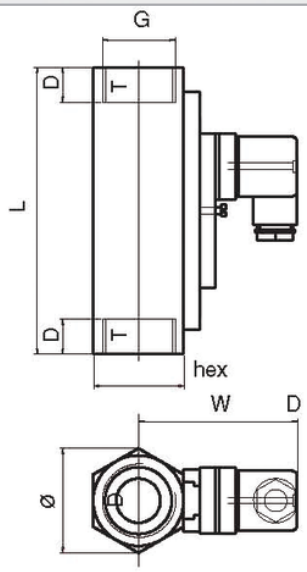
(water in l/min)

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	8,0...30
0,025...0,13	0,3...1,0	9,5…24	15...45
0,1...0,6	0,7…2,0	12…28	30...90
0,2...1,2	1,6...4,0		60...150
0,4...2,0	3,0...8,0		
0,5...3,0	4,5...12		
1,0...5,0	6,0…15		

Dimensions (mm / *inch*)

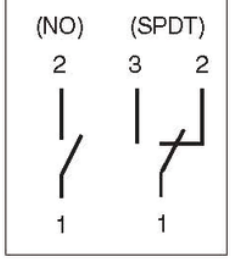
Dimensions (in mm)

BFS-10-N

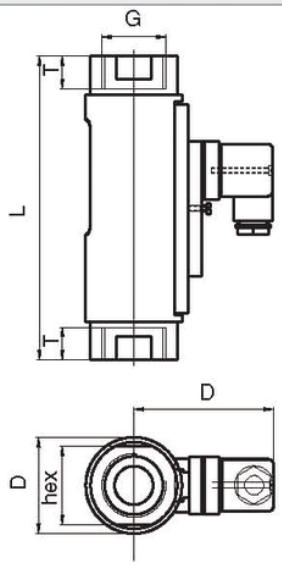


(G)	G 1/4	G 1/2	G 1
(hex)	17	27	41
(ø)	17	31	47
(W)	47	52	76
(D)	10	14	17
(L)	65	90	130
Weight (g)	140	350	1050

Wiring diagram



BFS-10-O



(G)	G 1/4	G 1/2	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	

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	