Appendix

Cross Reference HLS

Replaced Type	Type	Description
HIF-FV…	HLS-S	Standard version
HIF-FPP…	HLS-P	Plastic version
HAG…	HLS-Exi	Ex i version
AL-ADF-HI…	HLS-Exd	Ex d version

Type Code

Code						
1		**Basic type**				
	HIF	Horizontal Float Switch				
	HIF-GL	Horizontal Float Switch GL				
	HAG	Horizontal Float Switch Ex i				
	AL-ADF-HI…	Horizontal Float Switch Ex d				
2		**Material float switch**				
	FV	Stainless steel 316Ti				
	FPP	Polypropylene				
	FL	Stainless steel 316L				
3		**Process connection**				
		1. Key Nominal width		2. Key Pressure rating		3. Key Flange facing
.../.../...	EN	EN 1092 DN 50 - DN 100	...	PN6 - PN400	...	Form B1, B2, C, D, E
	DIN	DIN DN 50 - DN 100		PN6 - PN400		Form, C, N, F, R13, V13
	ANSI	ANSI 2“ - 4“		Class 150 - Class 2500		Form RF, RTJ, FF, RFSF
	Q	Square flange DN 80 and DN 92				
4		**Dimensions**				
		1. Key Insertion length (depends on float)		2. Key Length contact tube		for float
L.../...		193mm… 990mm		100mm…900mm		V44HI
		185mm…990mm		100mm…900mm		T52HI
		240mm…990mm		100mm…900mm		ZVSS43/100HI
		185mm…990mm		100mm…900mm		T52HI/Gr. 5
		185mm…990mm		100mm…900mm		T62HI/Gr. 5
		176mm		111mm		PP44HI
5		**Raised housing in mm**				
/ ...	0	without				
	60	60 mm				
6		**Material contact tube**				
...	V	Stainless steel 316Ti				
	L	Stainless steel 316L				
	PP	Polypropylene				
7		**Contact**				
...	U	Change-over SPDT				
	S	Closing on rising level SPST				
	O	Opening on rising level SPST				
	I	Proximity switch				

8		Contact options		
/ ...	R22	Protective resistor R22 for PLC		
	N	NAMUR circuit to DIN EN 60497-5-6		
9		**Float**		
	Type	**Material**	**Pressure**	**Temperature range**
	V44HI	Stainless steel 316Ti	6 bar	-196°C…350°C
	ZVSS43/100HI	Stainless steel 316Ti	20 bar	-196°C…350°C
	T52HI	Titanium Gr. 2	100 bar	-196°C…350°C
	T52HI/Gr. 5	Titanium Gr. 5	232 bar	-196°C…350°C
	T62HI/Gr. 5	Titanium Gr. 5	232 bar	-196°C…350°C
	PP44HI	Polypropylene	3 bar	-10°C…80°C
10		**Approval**		
...	Ex	Ex i intrinsically safe		
	Ex d	Ex d explosion-proof		

Ordering example

	Basic type		Material process connection	Process connection		Dimensions	Raised housing		Material contact tube	Contact	Contact options		Float		Approval
Code	1	-	2	3	-	4	5	-	6	7	8	-	9	-	10
	HIF	-	FV	EN25/16/B1	-	L193/100	/0	-	V	S	/R22	-	V44HI	-	Ex

KSR KUEBLER Niveau-Messtechnik AG
Heinrich-Kuebler-Platz 1
69439 Zwingenberg/Germany
Tel. +49 6263 87-0
Fax +49 6263 8799
info@ksr-kuebler.com
www.ksr-kuebler.com

11/2014 GB