



Float Switch Range

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Float Switches are available in the following styles:

- As single switches for 'High' fuel level indication as shown above, working in conjunction with the FEL Valves range of Tank Overfill Alarms whereby an audible and visual alarm is generated by detection of a high fuel level within a tank using a standard make on rise float switch assembly. Also shown above is a 'Bund' float switch with flexible lead (20270/F).
- Twin float switches, can provide 'High' and 'Low' switch points for indirect pump start/pump stop applications or to provide pre-set alarm indications, perhaps for overfilling and fuel reorder.
- Four float assemblies usually provide a combination of alarm and pump start/pump stop functions, whereby the lower and upper floats give Low Low and High High indication.



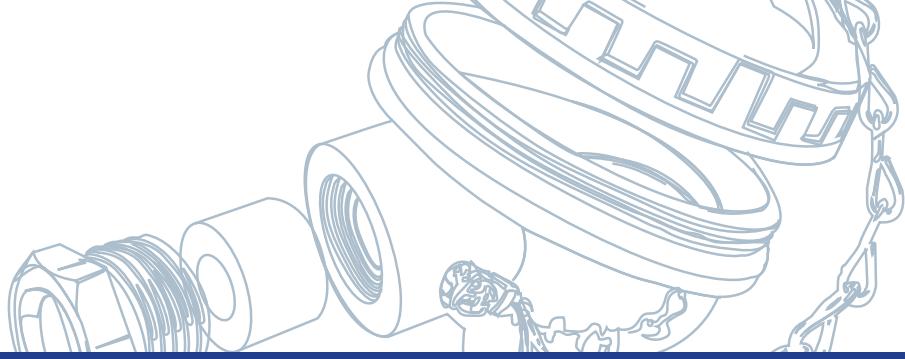
Customers may choose between '**Make on Rise**' or '**Make on Fall**' switch orientation, together with the switch point dimensions taken from the top of the tank into which the float switches are to be installed.

FEL Float switches are manufactured to a robust design, using stainless steel stem, floats and float stops and a brass process connector with 1" BSPP male thread. The terminal housing is of cast aluminium to IP67, whilst the internal switches have a standard rating of 1.0amp 230V ac.

Customers should also specify where float switches are to be used on inductive loads, as back EMF protection may be required.

All FEL float switches are made to suit individual customer requirements for switch rating, orientation, switch depth and materials of construction.

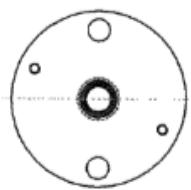
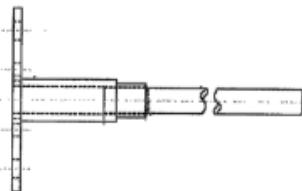
Float Switch – Part Numbers				
Float Switch Lengths (mm)	Number of Floats	Number of Floats	Number of Floats	Number of Floats
	1	2	3	4
(0 - 550mm)	20-271	20-271/2	20-271/3	20-271/4
(551mm - 1020mm)	20-271A	20-271/2A	20-271/3A	20-271/4A
(1021mm - 1550mm)	20-271B	20-271/2B	20-271/3B	20-271/4B
(1551mm - 2000mm)	20-271C	20-271/2C	20-271/3C	20-271/4C
(2001mm - 2500mm)	20-271D	20-271/2D	20-271/3D	20-271/4D
(2501mm - 3000mm)	20-271E	20-271/2E	20-271/3E	20-271/4E
(3001mm - 3500mm)	20-271F	20-271/2F	20-271/3F	20-271/4F
(3501mm +)	20-271G	20-271/2G	20-271/3G	20-271/4G



Exd EXPLOSION PROOF TERMINAL HEAD

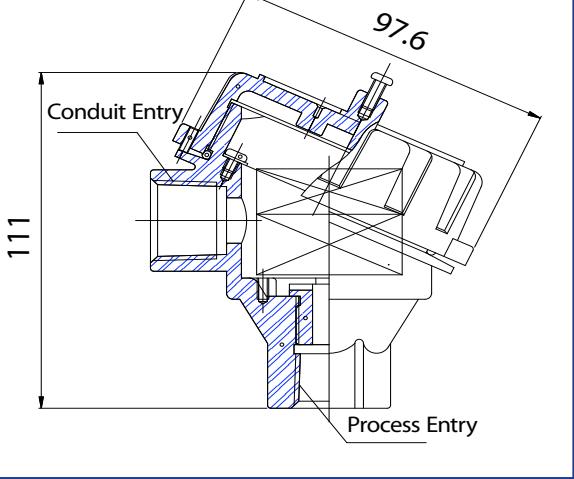
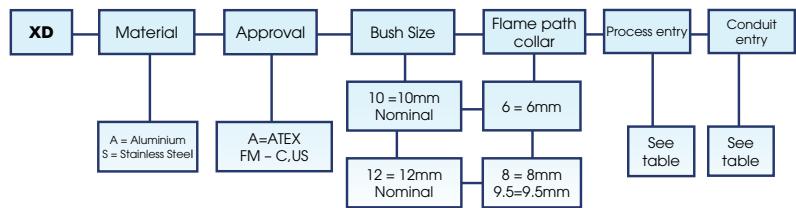
XD Type

Supplied with bush and flame path collar.



XDS – Stainless Steel

XDA – Aluminium
Epoxy paint RAL5005



Eg. XDS-F-12-9.5-M24-M20

XD head – Stainless Steel, F = FM - C.US
approved, 12mm nominal bush, 9.5mm flame path collar, M24 process entry x M20 conduit entry.

Process Entry

- M20 x 1.5
- M24 x 1.5
- M25 x 1.5
- 1/2" NPT
- 1/2" BSPP
- 1/2" BSPT
- 3/4" NPT
- 3/4" BSPP
- 3/4" BSPT
- 1" NPT
- 1" BSPP
- 1" BSPT

Code

- M20
- M24
- M25
- 12NPT
- 12BSP
- 12BST
- 34NPT
- 34BSP
- 34BST
- 1NPT
- 1BSP
- 1BST

Conduit Entry

- M20 x 1.5
- M24 x 1.5
- M25 x 1.5
- 1/2" NPT
- 1/2" BSPP
- 1/2" BSPT
- 3/4" NPT
- 3/4" BSPP
- 3/4" BSPT
- PG16

Code

- M20
- M24
- M25
- 12NPT
- 12BSP
- 12BST
- 34NPT
- 34BSP
- 34BST
- PG16

Float Switch Questionnaire / Specification – Please complete appropriately.

Customer Details	
Customer	
Contact Name	
Part Number FEL Valves Use	
Enquiry Date (dd/mm/yyyy)	

Process Connection Size	
1" - Standard	
1 ½"	
2"	
Process Connection	
BSPP - Standard	
NPT	
Flanged EN1092-1 (PN16)	
Flanged ANSI 150	
Process Connection Material	
Brass - Standard	
Stainless Steel	
Float Material	
NBR - Standard	
Stainless Steel	

Terminal Enclosure Material	
Aluminium IP67 x M20 - Standard	
Aluminium Eexd x M20	
Stainless Eexd x M20	

Electrical	
Voltage (V)	V
AC	DC
Switched Current (Amps)	
1	A
Power (Volt-ampere)	
Allow for inrush current	
VA	

Fluid/Liquid Medium	
Name	
Density (SG)	
Temperature (°C)	
Comments	

Float Switch Operation – Customer Bespoke Design			
Switch	Switch Depth (mm)	Make on Rise	Make on Fall
1			
2			
3			
4			
Max Depth (mm)			
Tank Depth (mm)			

Important Information Please be advised that we will do our best to be as accurate as possible on each of the switches. It's important to be advised that the switch depth might have a variance of 5mm +/-

Testing/Certificates *Only on request	
Electrical Continuity Test	
Product Certificate	
Quality Certificates	
Function Test Certificate	
FEL Valves USE ONLY	
Manufacturing Date	
FEL Sales Order No	

Important Information
 First Float **minimum 65mm**
40mm minimum **between** floats
 Add **35mm** **after** last float.

