Float switch For industrial applications Model RLS-1000

WIKA data sheet LM 50.03



Applications

- Level measurement of liquids in machine building
- Control and monitoring tasks for hydraulic power packs, compressors and cooling systems

Special features

- Maximum reliability thanks to high-quality reed contacts
- Very high variety and customer-specific solutions possible
- Simple and fast installation

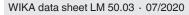


The RLS-1000 is a robust, reliable and inexpensive float switch. Since the monitoring of levels as well as dry-run protection and overflow protection are cost-sensitive applications in the machine-building industry, a float switch is the ideal solution for many plants. The RLS-1000 reliably detects the level in vessels with water, oil, diesel or other liquids by means of a permanent magnet and frictionless reed contacts at max. 4 defined switch points and can be used in a medium temperature range from -30 to +150 °C [-22 to +302 °F].

The compact float switch is simple, convenient and fast to integrate, because it does not need to be calibrated or set during the installation. This greatly improves the ease of handling, especially in confined installation situations. Also, since its robust design makes it resistant to vibrations and shocks, maintenance costs are minimal



Fig. left: Angular connector, float from NBR Fig. right: Circular connector M12 x 1, float from stainless steel





Specifications

Guide tube length L 60 1,500 mm [2.5 59 in], other lengths on request Output signal Up to 4 switch points, depending on the electrical connection: SP1, SP2, SP3, SP4 Switching function Alternatively normally open (NO), normally closed (NC) or change-over (SPDT) contact - on rising level Switch position Specified in mm, starting from the upper sealing face (SP1 SP4)	Float switch, model RLS-	-1000						
Output signal Up to 4 switch points, depending on the electrical connection: SP1, SP2, SP3, SP4 Switching function Alternatively normally open (NO), normally closed (NC) or change-over (SPDT) contact - on rising level Switch position Specified in mm, starting from the upper sealing face (SP1 SP4) At the end of the guide tube = 45 mm [e 1. Sin] cannot be used for switch positions. Distance between switch points 10 minimum distance SP1 to the upper sealing face: 50 mm [2.0 in] Minimum distance with 3 switch points: 50 mm [2.0 in] 30 mm [1.2 in], for floats with outer Ø = 44 mm [1.7 in], 52 mm [0.9 in], 25 mm [1.0 in], 30 mm [1.2 in] in floats with outer Ø = 18 mm [0.7 in], 22 mm [0.9 in], 25 mm [1.0 in], 30 mm [1.2 in] in minimum distance with 3 switch points: 80 mm [3.1 in], between SP2 and SP3 Switching power 2) Floats with outer diameter Ø D = 44 mm [1.7 in], 52 mm [2.0 in] Normally open, AC 1230 V; 100 VA; 1 A; 5060 Hz Change-over contact: AC 230 V; 100 VA; 1 A; 5060 Hz Change-over contact: AC 100 V; 10 V; 0.5 A; 5060 Hz Change-over contact: AC 100 V; 10 V; 0.5 A; 5060 Hz Change-over contact: AC 100 V; 10 V; 0.5 A; 5060 Hz Change-over contact: AC 100 V; 10 V; 0.5 A; 5060 Hz Change-over contact: AC 100 V; 50 V; 0.25 A; 5060 Hz Change-over contact: AC 100 V; 50 V; 0.25 A; 5060 Hz Change-over contact: AC 100 V;	Measuring principle	Potential-free switching reed cont	tacts are triggered by a ma	gnet in the float.				
Alternatively normally open (NO), normally closed (NC) or change-over (SPDT) contact - on rising level	Guide tube length L	60 1,500 mm [2.5 59 in], other	60 1,500 mm [2.5 59 in], other lengths on request					
Switch position Specified in mm, starting from the upper sealing face (SP1 SP4) At the end of the guide tube ≈ 45 mm [≈ 1.8 in] cannot be used for switch positions. Distance between switch points ¹¹ Minimum distance SP1 to the upper sealing face: 50 mm [2.0 in] Minimum distance between the switch points: 50 mm [2.0 in], for floats with outer Ø = 44 mm [1.7 in], 52 mm [2.0 in] 30 mm [1.2 in], for floats with outer Ø = 44 mm [1.7 in], 52 mm [0.9 in], 25 mm [1.0 in], 30 mm [1.2 in] Minimum distance with 3 switch points: 80 mm [3.1 in], either between SP1 and SP2 or SP2 and SP3 Minimum distance with 4 switch points: 80 mm [3.1 in], either between SP1 and SP2 or SP2 and SP3 Minimum distance with 4 switch points: 80 mm [3.1 in], either between SP1 and SP2 or SP2 and SP3 Minimum distance with 4 switch points: 80 mm [3.1 in], either between SP1 and SP2 or SP2 and SP3 Minimum distance with 4 switch points: 80 mm [3.1 in], either between SP1 and SP2 or SP2 and SP3 Minimum distance with 4 switch points: 80 mm [3.1 in], either between SP1 and SP2 or SP2 and SP3 Minimum distance with 4 switch points: 80 mm [3.1 in], either between SP1 and SP2 or SP2 and SP3 Minimum distance with 4 switch points: 80 mm [3.1 in], either between SP1 and SP2 or SP2 and SP3 Minimum distance with 4 switch points: 80 mm [3.1 in], either between SP1 and SP2 or SP2 and SP3 Minimum distance with 4 switch points: 80 mm [3.1 in], either between SP1 and SP2 or SP2 and SP3 Minimum distance with 4 switch points: 80 mm [3.1 in], either between SP1 and SP2 or SP2 and SP3 Minimum distance with 4 switch points: 80 mm [3.1 in], either between SP1 and SP2 or SP2 and SP3 Minimum distance with 4 switch points: 80 mm [3.1 in], either between SP1 and SP2 or SP2 and SP3 Minimum distance with 4 switch points: 80 mm [3.1 in], either between SP1 and SP2 or SP2 and SP3 Minimum distance with 4 switch points: 80 mm [3.1 in], either between SP1 and SP2 or SP2 and SP3 Minimum distance with 4 switch points: 80 mm [3.1 in], either between SP1 and SP2 or SP2 and SP3 Min	Output signal	Up to 4 switch points, depending	on the electrical connectio	n: SP1, SP2, SP3, SP4				
At the end of the guide tube ≈ 45 mm [≈ 1.8 in] cannot be used for switch positions.	Switching function	Alternatively normally open (NO),	ulternatively normally open (NO), normally closed (NC) or change-over (SPDT) contact - on rising level					
Minimum distance between the switch points: S0 mm [2.0 in], for floats with outer Ø = 44 mm [1.7 in], 52 mm [2.0 in] 30 mm [1.2 in], for floats with outer Ø = 18 mm [0.7 in], 22 mm [0.9 in], 25 mm [1.0 in], 30 mm [1.2 in] Minimum distance with 3 switch points: 80 mm [3.1 in], between SP1 and SP2 or SP2 and SP3	Switch position							
Normally open, normally closed:	Distance between switch points 1)	Minimum distance between the s 50 mm [2.0 in], for floats with oute 30 mm [1.2 in], for floats with oute Minimum distance with 3 switch p	Minimum distance between the switch points: 50 mm [2.0 in] for floats with outer $\emptyset = 44$ mm [1.7 in], 52 mm [2.0 in] 30 mm [1.2 in], for floats with outer $\emptyset = 18$ mm [0.7 in], 22 mm [0.9 in], 25 mm [1.0 in], 30 mm [1.2 in] Minimum distance with 3 switch points: 80 mm [3.1 in], either between SP1 and SP2 or SP2 and SP3					
Normally open, normally closed: DC 100 V; 10 VA; 0.5 A; 50 60 Hz normally closed: DC 100 V; 10 W; 0.5 A Change-over contact: AC 100 V; 5 W; 0.25 A; 50 60 Hz normally closed: DC 100 V; 5 W; 0.25 A Accuracy	Switching power ²⁾	Normally open, normally closed: DC 230 V Change-over contact: AC 230 V	; 100 VA; 1 A; 50 60 Hz ; 50 W; 0.5 A ; 40 VA; 1 A; 50 60 Hz	n [2.0 in]				
Mounting position Vertical ±30° Process connection ■ G 1/2, installation from outside ³) ■ G ½, installation from inside ⁵) 6) ■ G 3/4, installation from outside ° ■ G ¼, installation from inside ⁵) 6) ■ G 1, installation from outside ° ■ G ½, installation from inside ⁵) ■ G 1½, installation from outside ° ■ G ½, installation from inside ⁵) ■ G ½, installation from inside ⁵) ■ G ½, installation from inside ⁵) ■ Flange DN 50, form B per EN 1092-1 (DIN 2527), PN 16, installation from outside Material Process connection, guide tube Stainless steel 316Ti See table on page 3 See table on page 3 Non-wetted Case Stainless steel 316Ti Electrical connection See table on page 3 Permissible temperatures Medium -30 +80 °C [-22 +176 °F] Ambient -30 +80 °C [-22 +248 °F] 7) 9) -30 +80 °C [-22 +248 °F] 7) 9 -30 +150 °C [-22 +248 °F] 7) 9 -30 +80 °C [-22 +248 °F] 7) 9 -30 +80 °C [-22 +248 °F] 7) 9		Normally open, AC 100 V; 10 VA; 0.5 A; 50 60 Hz normally closed: DC 100 V; 10 W; 0.5 A Change-over contact: AC 100 V; 5 VA; 0.25 A; 50 60 Hz						
Process connection ■ G 1/2, installation from outside 3) ■ G 3/4, installation from inside 5) 6) ■ G 3/4, installation from outside 4) ■ G 1/4, installation from inside 5) 6) ■ G 1 ½, installation from outside 9 ■ G 3/4, installation from inside 5) ■ G 1½, installation from outside 9 ■ G 3/4, installation from inside 5) ■ G 3/4, installation from inside 5) ■ G 3/4, installation from inside 5) ■ G 1/2, installation from outside 9 ■ G 1/2, installation from inside 5) ■ G 3/4, installation from inside 5) ■ G 3/4, installation from inside 5) ■ G 1/2, installation from inside 5) ■ G 3/4, installation from inside 5) ■ G 1/2, installation from inside 5) ■ G 3/4, installation from inside 5) ■ G 1/2, installation from inside 5) ■ G 1/2, installation from inside 5) ■ G 1/2, installation from inside 5) ■ G 1/2, installation from inside 5) ■ G 1/2, installation from outside ■ G 1/2, installation from inside 5) ■ G 1/2, installation from outside ■ G 1/2, installation from outside ■ G 1/2, installation from outside ■ G 1/2, installation from inside 5) ■ G 1/2, installation from outside ■ G 1/2, installation from outside ■ G 1/2, installation from outside ■ G 1/2, installation from outside ■ G 1/2, installation	Accuracy	±3 mm switch point accuracy incl	. hysteresis, non-repeatabi	ility				
■ G 3/4, installation from outside 4) ■ G 1, installation from outside ■ G 2, installation from outside ■ Flange DN 50, form B per EN 1092-1 (DIN 2527), PN 16, installation from outside Material Wetted Process connection, guide tube Float See table on page 3 Non-wetted Case Stainless steel 316Ti Float See table on page 3 Permissible temperatures Medium -30 +80 °C [-22 +176 °F] -30 +120 °C [-22 +248 °F] ^{7) 9)} -30 +150 °C [-22 +302 °F] ^{8) 9)} Ambient -30 +80 °C [-22 +176 °F]	Mounting position	Vertical ±30°						
Wetted Process connection, guide tube Stainless steel 316Ti Float See table on page 3 Non-wetted Case Stainless steel 316Ti Electrical connection See table on page 3 Permissible temperatures Medium -30 +80 °C [-22 +176 °F]	Process connection	 G 3/4, installation from outside G 1, installation from outside G 1 ½, installation from outsid G 2, installation from outside Flange DN 50, form B per EN 	e ⁴⁾	 ■ G ¼, installation from inside ^{5) 6)} ■ G ¾, installation from inside ⁵⁾ 				
Float See table on page 3 Non-wetted Case Stainless steel 316Ti Electrical connection See table on page 3 Permissible temperatures Medium -30 +80 °C [-22 +176 °F] -30 +120 °C [-22 +248 °F] ^{7) 9)} -30 +150 °C [-22 +302 °F] ^{8) 9)} Ambient -30 +80 °C [-22 +176 °F]	Material							
Non-wetted Case Stainless steel 316Ti Electrical connection See table on page 3 Permissible temperatures Medium -30 +80 °C [-22 +176 °F] -30 +120 °C [-22 +248 °F] ^{7) 9)} -30 +150 °C [-22 +302 °F] ^{8) 9)} Ambient -30 +80 °C [-22 +176 °F]	Wetted	Process connection, guide tube	Stainless steel 316Ti					
Electrical connection See table on page 3 Permissible temperatures Medium -30 +80 °C [-22 +176 °F] -30 +120 °C [-22 +248 °F] ^{7) 9)} -30 +150 °C [-22 +302 °F] ^{8) 9)} Ambient -30 +80 °C [-22 +176 °F]		Float	See table on page 3					
Permissible temperatures Medium -30 +80 °C [-22 +176 °F] -30 +120 °C [-22 +248 °F] ^{7) 9)} -30 +150 °C [-22 +302 °F] ^{8) 9)} Ambient -30 +80 °C [-22 +176 °F]	Non-wetted	Case	Stainless steel 316Ti					
Medium -30 +80 °C [-22 +176 °F] -30 +120 °C [-22 +248 °F] ^{7) 9)} -30 +150 °C [-22 +302 °F] ^{8) 9)} Ambient -30 +80 °C [-22 +176 °F]		Electrical connection	See table on page 3					
-30 +120 °C [-22 +248 °F] ^{7) 9)} -30 +150 °C [-22 +302 °F] ^{8) 9)} Ambient -30 +80 °C [-22 +176 °F]	Permissible temperatures							
	Medium	-30 +120 °C [-22 +248 °F] 7						
Storage -30 +80 °C [-22 +176 °F]	Ambient	-30 +80 °C [-22 +176 °F]						
	Storage	-30 +80 °C [-22 +176 °F]						

¹⁾ Smaller minimum distances on request

Smaller minimum distances on request
 Higher switching power ratings on request
 Only with outer diameter float Ø D = 18 mm [0.7 in]
 Only with outer diameter float Ø D ≤ 22 mm [0.9 in]
 Only for versions with cable outlet
 Not with 4 switch points
 Not with cable material: PVC, PUR; max. 1 change-over contact or 2 normally closed/normally open contacts with float outer diameter Ø D ≤ 30 mm [1.2 in]; not with connection housing 58 x 64 x 36 mm [2.3 x 2.5 x 1.4 in]
 Only with cable material: Silicone or connection housing 75 x 80 x 57 mm [3.0 x 3.1 x 2.2 in]
 Not of or shipbuilding version

Electrical connections 1)	Max. switch point definition	Ingress protection per IEC/EN 60529 2)	Protection class	Material	Cable length
Angular connector DIN EN 175301-803 A ^{3) 4)}	■ 2 NO/NC ■ 1 SPDT	IP65	II	PA	-
Circular connector M12 x 1 (4-pin) 4)	■ 3 NO/NC ■ 1 NO/NC + 1 SPDT	IP65	II	TPU, brass	
Cable outlet 4)	■ 4 NO/NC ■ 4 SPDT	IP67	II	PVC	■ 2 m [6.5 ft] ■ 5 m [16.4 ft]
Cable outlet 4)	■ 4 NO/NC ■ 4 SPDT	IP67	II	PUR	other lengths on request
Cable outlet 4)	■ 4 NO/NC ■ 2 NO/NC + 1 SPDT	IP67	II	Silicone	
Cable outlet "shipbuilding"	■ 4 NO/NC ■ 4 SPDT	IP67	II	Polyolefin	
Connection housing "standard" Dimensions: 75 x 80 x 57 mm [3.0 x 3.1 x 2.2 in] For cable diameter: 5 10 mm [0.2 0.4 in]	■ 4 NO/NC ■ 4 SPDT	IP66	I	Case from aluminium, cable gland from polyamide	-
Connection housing "compact" Dimensions: 58 x 64 x 36 mm [2.3 x 2.5 x 1.4 in] For cable diameter: 5 10 mm [0.2 0.4 in]	■ 4 NO/NC ■ 2 NO/NC + 1 SPDT ■ 2 SPDT	IP66	II		

Float	Form	Outer diameter Ø D	Height H	Operating pressure	Medium temperature	Density	Material
	Cylinder 4) 7)	44 mm [1.7 in]	52 mm [2.0 in]	≤ 16 bar [≤ 232 psi]	-30 +150 °C [-22 +302 °F]	≥ 750 kg/m³ [46.8 lbs/ft³]	316Ti
T	Cylinder 5)	30 mm [1.2 in]	36 mm [1.4 in]	≤ 10 bar [≤ 145 psi]	-30 +120 °C [-22 +248 °F]	≥ 850 kg/m³ [53.1 lbs/ft³]	316Ti
ØD	Cylinder 5) 3)	25 mm [1.0 in]	17 mm [0.7 in]	≤ 16 bar [≤ 232 psi]	-30 +80 °C [-22 +176 °F]	≥ 750 kg/m³ [46.8 lbs/ft³]	Buna / NBR
	Cylinder 4) 6) 9)	25 mm [1.0 in]	23 mm [0.9 in]	≤ 4 bar [≤ 58.0 psi]	-25 +80 °C [-13 +176 °F]	≥ 700 kg/m³ [43.7 lbs/ft³]	PP
	Cylinder 4) 6) 9)	25 mm [1.0 in]	23 mm [0.9 in]	≤ 4 bar [≤ 58.0 psi]	-25 +80 °C [-13 +176 °F]	≥ 750 kg/m³ [46.8 lbs/ft³]	PA6.6
	Cylinder 5) 9)	22 mm [0.9 in]	29 mm [1.1 in]	≤ 16 bar [≤ 232 psi]	-30 +120 °C [-22 +248 °F]	≥ 850 kg/m³ [53.1 lbs/ft³]	316Ti
	Cylinder 4) 6) 9)	18 mm [0.7 in]	32 mm [1.3 in]	≤ 16 bar [≤ 232 psi]	-30 +80 °C [-22 +176 °F]	≥ 750 kg/m³ [46.8 lbs/ft³]	Buna / NBR
Z Z	Sphere ^{6) 7)}	52 mm [2.0 in]	52 mm [2.0 in]	≤ 40 bar [≤ 580 psi]	-30 +150 °C [-22 +302 °F]	≥ 750 kg/m³ [46.8 lbs/ft³]	316Ti

¹⁾ Versions with protective conductor on request
2) The stated ingress protection (per IEC/EN 60529) only applies when plugged in using mating connectors that have the appropriate ingress protection.
3) Not with process connection G 1/2
4) Not for shipbuilding version
5) Not with process connection G 1, guide tube length L ≥ 100 mm [L ≥ 3.94 in]
6) Guide tube length L ≤ 1,000 mm [L ≤ 39.37 in], switch points max. 3 NO/NC or 2 SPDT definable
7) Not with process connection G 1, G 1 ½, guide tube length L ≥ 100 mm [L ≥ 3.94 in]
8) Not with process connection G ½
9) Not with process connection G 1 1/2, G 2, flange DN 50

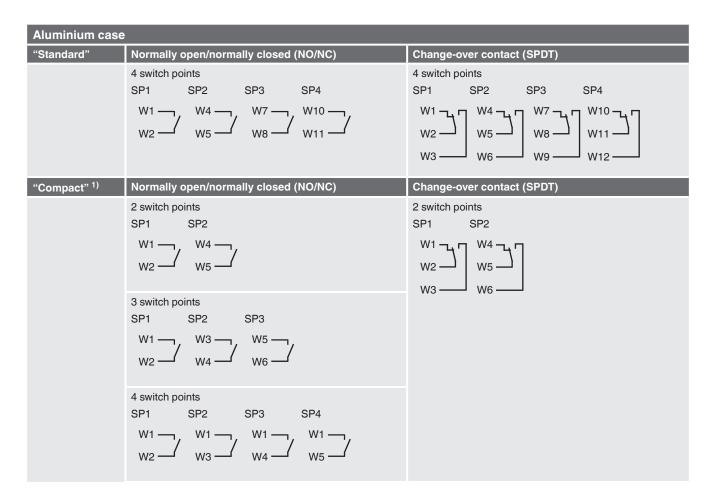
Connection diagram

Angular connector DIN EN 175301-803 A					
	Normally open/normally closed (NO/NC)	Change-over contact (SPDT)			
	2 switch points	1 switch point			
	SP1 SP2	SP1			
	$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$ $\begin{bmatrix} 1 \\ 3 \end{bmatrix}$	1 7			
		3 ——			

Circular connec	ctor M12 x 1 (4-pin)	
	Normally open/normally closed (NO/NC)	Change-over contact (SPDT)
(20 O1) 30 O4)	2 switch points SP1 SP2 1 3 4	1 switch points SP1 1 2 3
	3 switch points SP1 SP2 SP3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Cable outlet 1)								
	Normally open/normally closed (NO/NC)				Change-over contact (SPDT)			
	4 switch points				4 switch points			
	SP1	SP2	SP3	SP4	SP1	SP2	SP3	SP4
	WH —,	GN —,	GY —,	BU —,	WH ¬¬¬	YE ¬५ヿ	BU¬¬¬	V [™] ¬\¬
	BN —	YE —	PK —	RD —	BN —	GY —	RD —	GYPK —
					GN —	PK —	ВК ——	RDBU —

¹⁾ For combinations of different switching output functions the PIN assignment is marked on the product label.



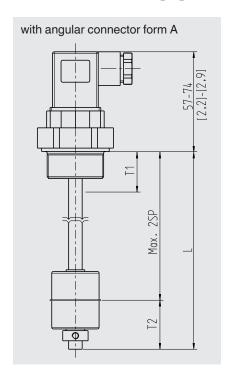
1) For combinations of different switching output functions the PIN assignment is marked on the product label.

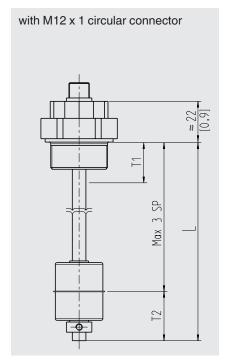
Legend

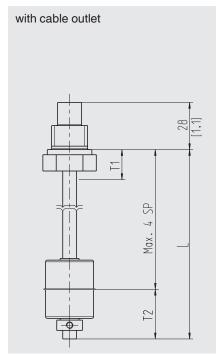
SP1 - SP4 Switch points WH White ΒN Brown GN Green YΕ Yellow GΥ Grey PΚ Pink BU Blue RD Red BK Black VTViolet **GYPK** Grey/Pink **RDBU** Red/Blue

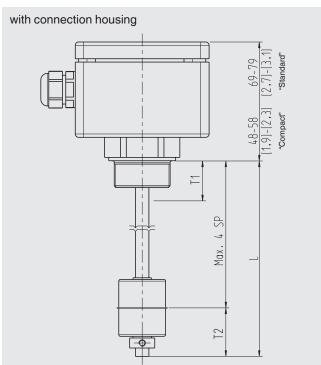
Electrical safety	
Insulation voltage	DC 2,120 V

Dimensions in mm [in]









Legend

- L Guide tube length
- T1 Dead band (from sealing edge)
- T2 Dead band (pipe end)

Float stop

- Adjusting collar, for medium temperature ≤ 120 °C [≤ 248 °F]
- Pipe clamp, for medium temperature > 120 °C [> 248 °F] and shipbuilding versions
- Retaining ring

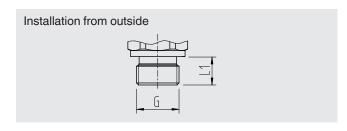
Dead band T1 float switch in mm [in] (from sealing edge)

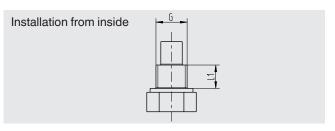
Process connection	Dead band in mm						
Outer diameter float Ø D	Ø 18 mm [0.7 in]	Ø 22 mm [0.9 in]	Ø 25 mm [1.0 in]	Ø 25 mm [1.0 in]	Ø 30 mm [1.2 in]	Ø 44 mm [1.7 in]	Ø 52 mm [2.0 in]
Float height H	H 32 mm [1.3 in]	H 29 mm [1.1 in]	H 17 mm [0.7 in]	H 23 mm [0.9 in]	H 36 mm [1.4 in]	H 52 mm [2.0 in]	H 52 mm [2.0 in]
G 1/2 (from outside)	35 mm [1.4 in]	-	-	-	-	-	-
G 3/4 (from outside)	35 mm [1.4 in]	35 mm [1.4 in]	-	-	-	-	-
G 1 (from outside)	35 mm [1.4 in]	35 mm [1.4 in]	25 mm [1.0 in]	35 mm [1.4 in]	35 mm [1.4 in]	-	-
G 1 ½ (from outside)	-	-	25 mm [1.0 in]	-	35 mm [1.4 in]	45 mm [1.8 in]	-
G 2 (from outside)	-	-	25 mm [1.0 in]	-	40 mm [1.6 in]	50 mm [2.0 in]	50 mm [2.0 in]
Flange (from outside)	-	-	5 mm [0.2 in]	-	20 mm [0.8 in]	30 mm [1.2 in]	30 mm [1.2 in]
G 1/8 B (from inside)	15 mm [0.6 in]	20 mm [0.8 in]	15 mm [0.6 in]	20 mm [0.8 in]	30 mm [1.2 in]	-	-
G 1/4 B (from inside)	20 mm [0.8 in]	25 mm [1.0 in]	20 mm [0.8 in]	25 mm [1.0 in]	35 mm [1.4 in]	40 mm [1.6 in]	40 mm [1.6 in]
G % B (from inside)	20 mm [0.8 in]	25 mm [1.0 in]	20 mm [0.8 in]	25 mm [1.0 in]	35 mm [1.4 in]	40 mm [1.6 in]	40 mm [1.6 in]
G ½ B (from inside)	20 mm [0.8 in]	25 mm [1.0 in]	20 mm [0.8 in]	25 mm [1.0 in]	35 mm [1.4 in]	45 mm [1.8 in]	45 mm [1.8 in]

Dead band T2 in mm [in] (pipe end)

Dead band in mm							
Outer diameter float Ø D	Ø 18 mm [0.7 in]					Ø 44 mm [1.7 in]	Ø 52 mm [2.0 in]
Float height H	H 32 mm [1.3 in]		H 17 mm [0.7 in]				H 52 mm [2.0 in]
T2	30 mm [1.2 in]	30 mm [1.2 in]	30 mm [1.2 in]	25 mm [1.0 in]	35 mm [1.4 in]	45 mm [1.8 in]	45 mm [1.8 in]

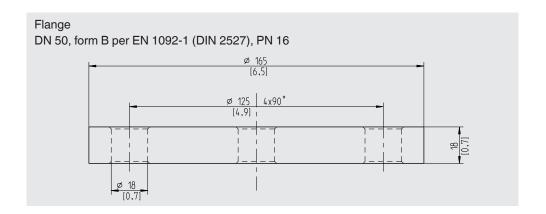
Process connection





G	L ₁	Spanner width
G 1/2	15 mm [0.59 in]	27 mm [1.1 in]
G 3/4	15 mm [0.59 in]	31 mm [1.2 in]
G 1	16 mm [0.63 in]	41 mm [1.6 in]
G 1 ½	18 mm [0.71 in]	30 mm [1.2 in]
G 2	20 mm [0.79 in]	36 mm [1.4 in]

G	L ₁	Spanner width
G 1/8 B	12 mm [0.47 in]	14 mm [0.5 in]
G 1/4 B	12 mm [0.47 in]	19 mm [0.7 in]
G % B	12 mm [0.47 in]	22 mm [0.9 in]
G ½ B	14 mm [0.55 in]	27 mm [1.1 in]



Accessories

Circular connector M12 x 1 with moulded cable									
	Description	Temperature range	Cable diameter	Cable length	Order number				
	Straight version, cut to length, 4-pin, PUR cable,	-20 +80 °C [-4 +176 °F]	4.5 mm [0.18 in]	2 m [6.6 ft]	14086880				
	UL listed, IP67			5 m [16.4 ft]	14086883				
				10 m [32.8 ft]	14086884				
	Angled version, cut to length, 4-pin, PUR cable, UL listed, IP67	-20 +80 °C [-4 +176 °F]	4.5 mm [0.18 in]	2 m [6.6 ft]	14086889				
				5 m [16.4 ft]	14086891				
				10 m [32.8 ft]	14086892				

Approvals

Logo	Description	Country
CE	EU declaration of conformity ■ Low voltage directive ■ RoHS directive	European Union
DNV-BL DWG.COM	DNV GL (option) 1) Ships, shipbuilding (e.g. offshore)	International

¹⁾ Only for shipbuilding version

Manufacturer's information and certificates

Logo	Description
-	China RoHS directive

Approvals and certificates, see website

Ordering information

 $Model \, / \, Output \, signal \, / \, Switching \, function \, / \, Switch \, point \, position \, / \, Electrical \, connection \, / \, Process \, connection \, / \, Guide \, tube \, length \, L \, / \, Medium \, temperature \, / \, Float$

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