

Switch modules

The switch module is selected according to the type of control required, switching capability, environmental conditions and the working temperature in the vessel. The key on page 22 shows how the designation code is structured. The details of the switch modules are listed in the following tables 1 to 13. In accordance with the relevant EU-directives and where applicable, Trimod Besta level switches are marked **CE**.

Table 1

Electrical/Electronic Basic Modules, IP65

With 1 or 2 switches, galvanically isolated and with earthed encapsulation. Enclosure type IP65. Housing in sea water resistant die cast aluminium, with cable gland M20x1.5.

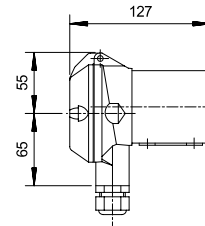


Table 1

Type	Function	SIL	Rating	Temperature in °C Operating	Temperature in °C Ambient	Connection diagram
A	SPDT Microswitch with silver contacts	SIL 1	250 VAC, 5 A 30 VDC, 5 A	0 to +330	0 to +70	
AA	Dual SPDT Microswitches with silver contacts, galvanically isolated	SIL 2	250 VAC, 5 A 30 VDC, 5 A	0 to +330	0 to +70	
B	SPDT Microswitch with gold plated contacts	SIL 1	0.3 A / 30 VDC	0 to +330	0 to +70	
BB	Dual SPDT Microswitches with gold plated contacts, galvanically isolated	SIL 2	0.3 A / 30 VDC	0 to +330	0 to +70	
I	Proximity switches acc. to NAMUR/EN 60947-5-6. As high alarm in the quiescent current mode or as a low alarm in the working current mode. Float up: Proximity switch damped: I ≤ 1 mA Float down: Proximity switch undamped: I ≥ 2.2 mA	SIL 1	$U_N 8.2 \text{ VDC} \pm 5\%$ ($U_B 5$ to 25 VDC)	0 to +150	0 to +70	
IN	Proximity switches acc. to NAMUR/EN 60947-5-6. As low alarm in the quiescent current mode or as a high alarm in the working current mode. Float up: Proximity switch undamped: I ≥ 2.2 mA Float down: Proximity switch damped: I ≤ 1 mA	SIL 1	$U_N 8.2 \text{ VDC} \pm 5\%$ ($U_B 5$ to 25 VDC)	0 to +150	0 to +70	
II	Dual proximity switches acc. to NAMUR/EN 60947-5-6. High/low level, galvanically isolated. Combination of I and IN.	SIL 1	$U_N 8.2 \text{ VDC} \pm 5\%$ ($U_B 5$ to 25 VDC)	0 to +150	0 to +70	
IE9	Self-checking proximity switch acc. to NAMUR/EN 60947-5-6, TÜV approved. As high alarm in the quiescent current mode. Float up: proximity switch damped: I ≤ 1 mA For self-checking operate in quiescent current mode.	SIL 1	$U_N 8.2 \text{ VDC} \pm 5\%$ ($U_B 5$ to 25 VDC)	0 to +150	0 to +70	
INE9	Self-checking proximity switch acc. to NAMUR/EN 60947-5-6, TÜV approved. As low alarm in the quiescent current mode. Float down: proximity switch damped: I ≤ 1 mA For self-checking operate in quiescent current mode	SIL 1	$U_N 8.2 \text{ VDC} \pm 5\%$ ($U_B 5$ to 25 VDC)	0 to +150	0 to +70	
IIE9	Dual self-checking proximity switches acc. to NAMUR/EN 60947-5-6, TÜV approved. High/low level, galvanically isolated. Combination of IE9 and INE9.	SIL 1	$U_N 8.2 \text{ VDC} \pm 5\%$ ($U_B 5$ to 25 VDC)	0 to +150	0 to +70	