Standex DETECT Electronics

SENSOR SPECIFICATIONS

SERIES	MK36	MK37		MK38			
Contact Data	1A	1A	1B	1A66	1A85	1B90 / 1C90C	
Switch Type	Normally Open	Normally Open	Normally Closed	Normally Open	Normally Open	Normally Closed / Changeover	Unit
Max Power	3	10	3	10	100	3	W
Max Switching Voltage	30	180	30	180	300	30	VDC
Max Switching Current	0.2	0.5	0.2	0.5	1	0.2	A
Typical Lifetime Resistive Load 12V at 5mA	$\geq 10^7$	$\geq 10^8$	$\geq 10^7$	$\geq 10^8$	$\geq 10^8$	$\geq 10^7$	Operating Cycles
Activation Distance (min) with Mating Magnet	17 [0.67”]	19 [0.75”]	16 [0.63”]	21 [0.83”]	20 [0.79”]	17 [0.67”]	mm [inches]
Release Distance (max) with Mating Magnet	25 [1.00”] M36 – N42	32 [1.25”] M37 – N42	26 [1.02”] M37 – N42	36 [1.42”] M38 – N42	36 [1.42”] M38 – N42	28 [1.10”] M38 – N42	mm [inches]

Note: Mounting to ferromagnetic material can decrease activation distance.
If mounting to ferromagnetic material use an adapter.

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SENSOR INSTALLATION INSTRUCTIONS

STEP 1 - Prepare Mounting Holes

- Drill a Ø9.5 mm [3/8”] hole into the frame. Drill a corresponding Ø9.5 mm [3/8”] hole into the door for the magnet.
- For installation into a steel frame an adapter is recommended. Drill a Ø19 mm [3/4”] hole to accommodate the adapter.
- Ensure Sensor and Magnet are inline for optimal performance in activation/release distances.

STEP 2 - Electrical Connection

- Normally Closed – place a magnet next to the sensor. Use a multimeter to verify the circuit will open and close when the magnet is removed.
- Normally Open–Use a multimeter to verify the circuit is open.
- Ensure all connections are secure and properly insulated.

STEP 3 - Installation

- Insert the sensor into the prepared hole in the stationary frame. Next insert the magnet into the moving door.
- For steel installations, first insert the adapter into the Ø19 mm [3/4”] hole. Then insert the sensor into the adapter
- Ensure the sensor is fully seated and properly aligned with the magnet location.

STEP 4 - Verification

- Verify proper switching function: Confirm open and closed states using a multimeter or system input
- Ensure consistent operation when the magnet is moved into and out of position.