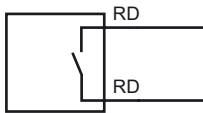
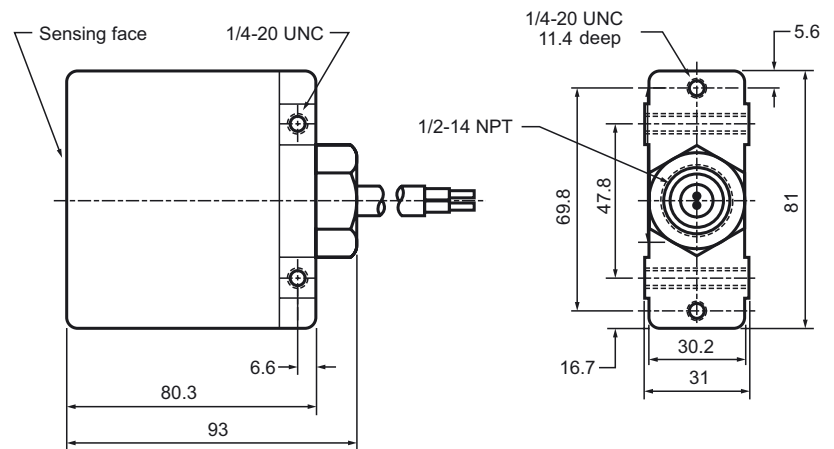


**Model Number**

6FR1-6

Features

- Ferromagnetic actuated reed switch
- Detects ferrous metal through nonferrous metal
- One piece housing

Connection**Dimensions****Technical Data****General specifications**

Switching element function		Reed Contact Normally Open
Rated operating distance	s_n	19.1 mm
Installation		not embeddable
Output polarity		Relay output
Mechanical life		5×10^7 switching cycles

Nominal ratings

Switching frequency	f	100 Hz
Repeat accuracy		≤ 0.13 mm
No-load supply current	I_0	≤ 50 mA
Reed bounce time		≤ 0.5 ms

Electrical specifications

Electrical rating		AC supply: 15 VA, 500 mA, 280 V RMS DC supply: 15 W, 500 mA, 400 V DC
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Standard conformity

Standards	EN 60947-5-2
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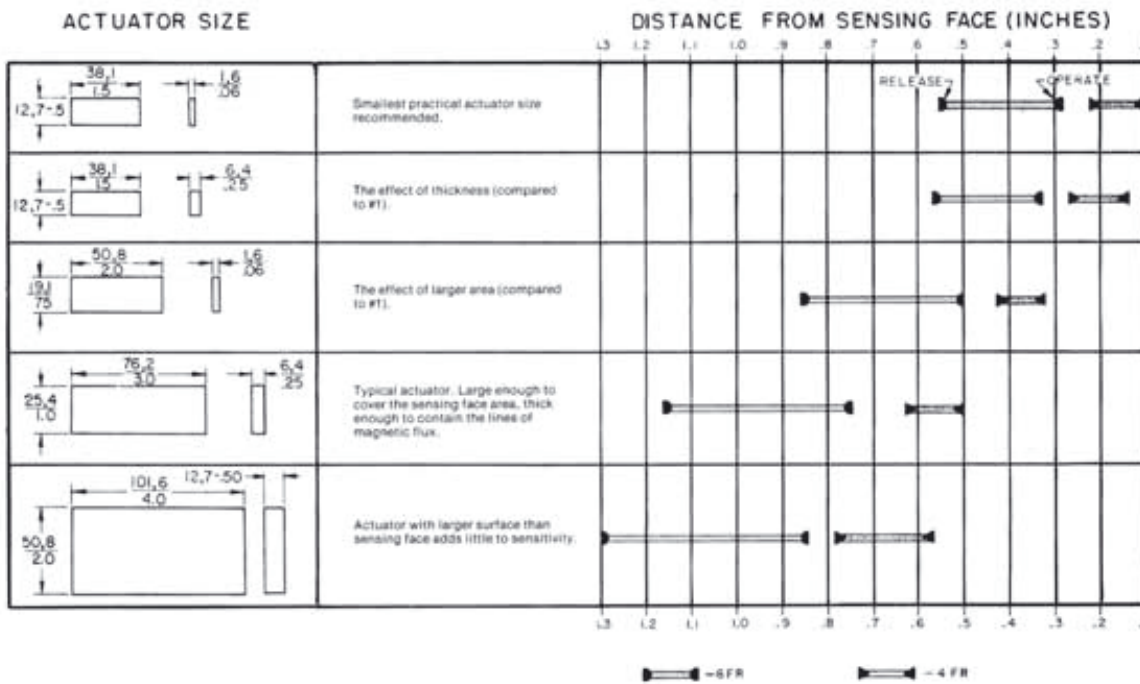
Ambient conditions

Ambient temperature	-20 ... 83 °C (-4 ... 181.4 °F)
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Mechanical specifications

Connection type	cable PVC , 1.83 m
Core cross-section	1.5 mm ²
Housing material	aluminium
Sensing face	aluminium
Protection degree	IP68
Note	Full sensing range available for low carbon steel 25.4 x 76.2 x 6.35mm

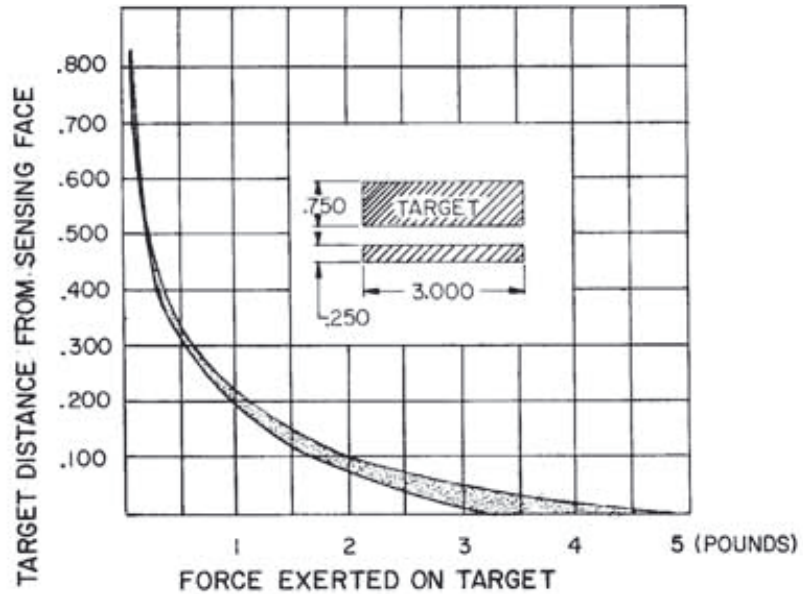
For proper operation over the total temperature range [with typical actuator (#4)], use a minimum overtravel of 0.150 in. (3.8 mm) release travel of 0.250 in.(6.35 mm). Overtravel and release travel will differ for smaller actuators.



MAGNETIC ATTRACTION

The switch exerts a magnetic force on the actuator. The actuator should be secured to prevent its being drawn to the sensing face.

1. Do not subject the switch to the influence of strong magnetic fields. External permanent magnets should be a minimum of 6 inches (152mm) from the switch.
2. Ferromagnetic materials (other than the actuator) should be at least 3 inches (76.2mm) from the sensing face.
3. Arc suppression networks must be used in inductive circuits.
4. These switches should not be subjected to severe shock.
5. Mount on solid support and protect from vibration.
6. The switch may fail to release if adjacent steel parts are too close, or if quantities of metallic chips are attracted to the sensing face.
7. Do not subject reed switches to high in-rush currents.
8. Each 4/6FR contains a glass reed switch and a magnet, and should be handled and applied accordingly.



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