



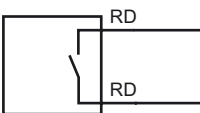
Bestellbezeichnung

6FR1-6

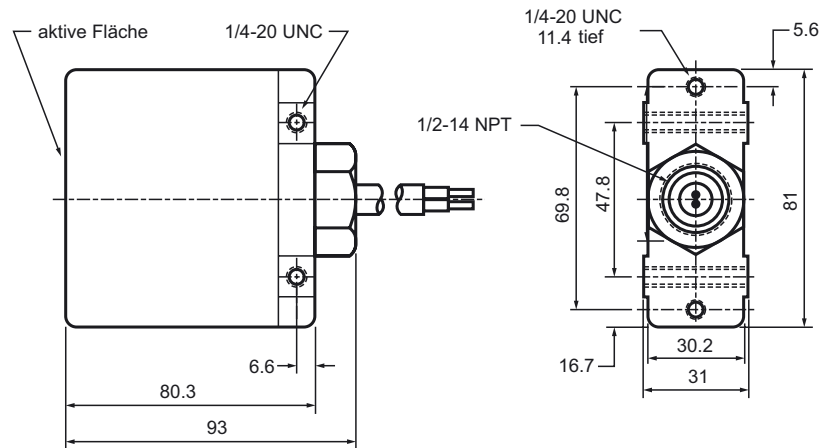
Merkmale

- Ferromagnetisch betätigter Reed-Schalter
- Erkennt Eisenmetalle durch Nicht-eisenmetalle hindurch
- Einteiliges Gehäuse

Anschluss



Abmessungen



Technische Daten

Allgemeine Daten

Schaltelementfunktion	Reed-Kontakt Schließer
Schaltabstand	s_n 19,1 mm
Einbau	nicht bündig
Ausgangspolarität	Relaisausgang
Mechanische Lebensdauer	5×10^7 Schaltspiele

Kenndaten

Schaltfrequenz	f 100 Hz
Reproduzierbarkeit	≤ 0.13 mm
Leerlaufstrom	I_0 ≤ 50 mA
Prellzeit (Reedkontakt)	$\leq 0,5$ ms

Elektrische Daten

Elektrische Belastbarkeit	Wechselstromversorgung: 15 VA, 500 mA, 280 V _{eff} Gleichstromversorgung: 15 W, 500 mA, 400 V DC
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Normenkonformität

Normen	EN 60947-5-2
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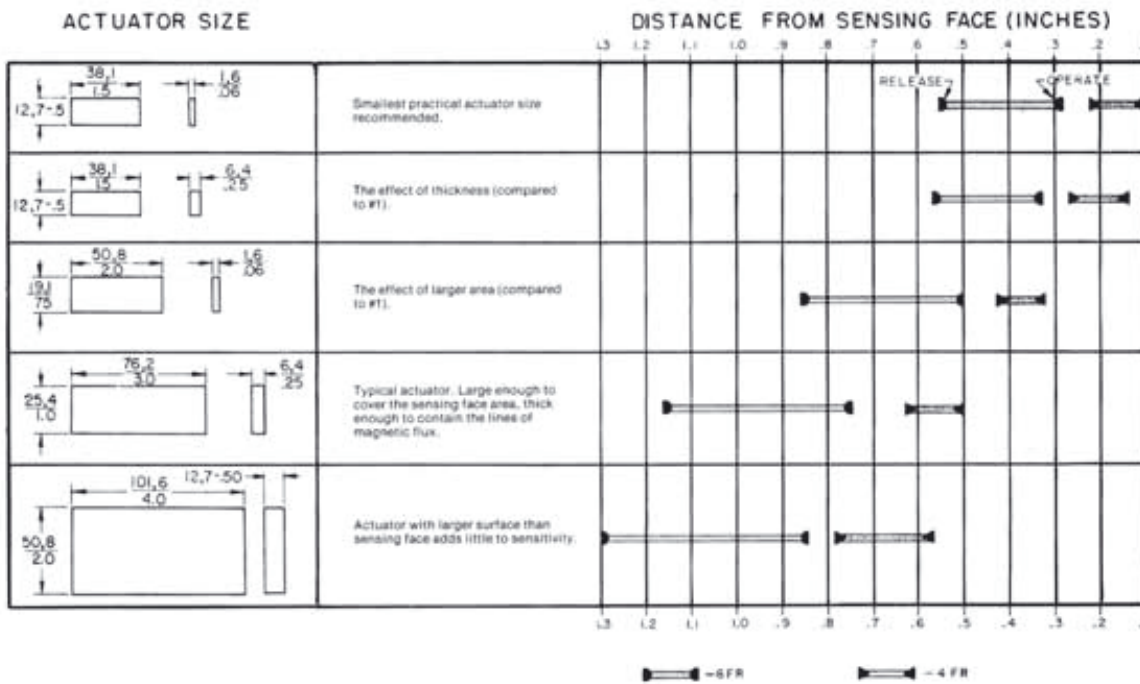
Umgebungsbedingungen

Umgebungstemperatur	-20 ... 83 °C (-4 ... 181,4 °F)
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Mechanische Daten

Anschlussart	Kabel PVC , 1,83 m
Aderquerschnitt	1,5 mm ²
Gehäusematerial	Aluminium
Stirnfläche	Aluminium
Schutzart	IP68
Hinweis	Volle Reichweite für Baustahl 25,4 x 76,2 x 6,35 mm verfügbar

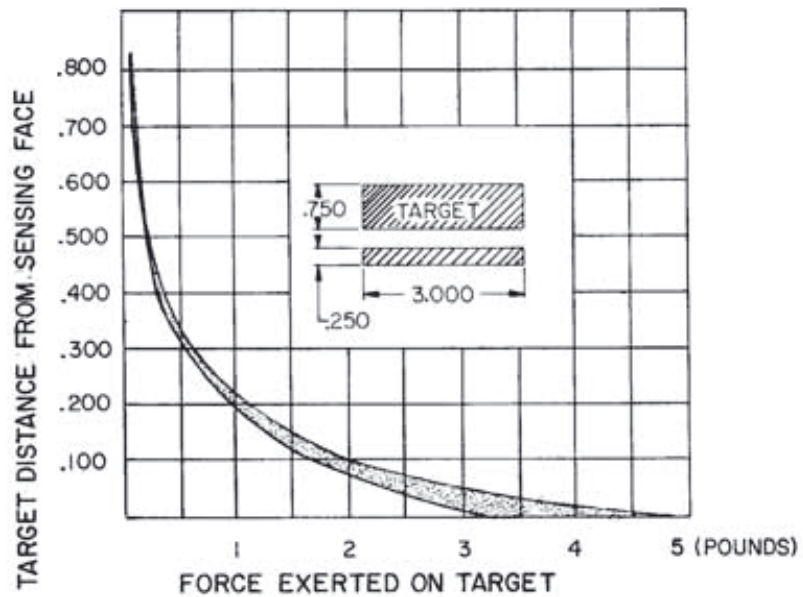
For proper operation over the total temperature range [with typical actuator (#4)], use a minimum overtravel of 0.150 in. (3.8 mm) release travel of 0.250 in.(6.35 mm). Overtravel and release travel will differ for smaller actuators.



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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