Electric Limit Switch
Type 4740

Application
Limit switch for mounting on a Type 3353 Angle Seat Valve or Type 3354 Globe Valve

The limit switch supplies a limit signal when an adjusted limit is exceeded in either direction. This signal is suitable for reversing control signals, initiating visual or audible alarms and for connection to central control or alarm systems. The limit switch is available in two versions, either with inductive proximity switches or with microswitches.

Versions
– Type 4740 · Electric limit switch, degree of protection IP 65 with inductive proximity switches or with microswitches

Optionally both versions can be fitted with a 3/2-way solenoid valve.

Fig. 1 · Type 4740 Limit Switch with mounting unit 1400-9922 for mounting on Type 3353 Angle Seat Valve and Type 3354 Globe Valve

Fig. 2 · Type 4740 Limit Switch with optional solenoid valve mounted on Type 3353 Angle Seat Valve

Associated Information Sheets
T 8000-x EN
T 8350 EN

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Data Sheet
T 8357 EN
**Principle of operation**
The inductive proximity switches or microswitches cause signals to be sent to a control or alarm system when the travel exceeds or falls below the adjusted limit. The limit switch can optionally be fitted with a 3/2-way solenoid valve. When the incorporated solenoid valve is energized, a supply air pressure is applied to the actuator. When the solenoid valve is de-energized, the actuator is vented and the valve moves to its fail-safe position. The switching points of the limit contacts can be changed within the travel range.

**Electrical connection**
The electrical connection is performed using a cable gland M20x1.5 to terminals as shown in the wiring diagram (Fig. 3).

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**Ordering text**
- Electric Limit Switch Type 4740
- Version with inductive proximity switches
- Version with microswitches
- Option 3/2-way solenoid valve
- Pneumatic connection push-in L-connector QS-G 1/8 – 6
- Mounting unit QS-G 1/8 – 6

**Accessories**
- Mounting unit
  - For mounting the limit switch to
    - Type 3353 Angle Seat Valve or
    - Type 3354 Globe Valve:
      - Order no. 1400-9922

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**Table 1 · Technical data**

<table>
<thead>
<tr>
<th>Type 4740 Electric Limit Switch</th>
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</thead>
<tbody>
<tr>
<td>Travel range</td>
<td>0 … 15 mm</td>
</tr>
<tr>
<td>Ambient temperature range</td>
<td>−20 … 65 °C</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP 65</td>
</tr>
<tr>
<td>Weight</td>
<td>Limit switch including solenoid valve, approx. 550 g · Mounting unit, approx. 180 g</td>
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</tbody>
</table>

**Version with inductive proximity switches**
- Rated voltage 8.2 V DC over isolating switch amplifiers acc. to DIN EN 60947-5-6

**Version with microswitches**
- Switching capacity 250 V AC, 16 (6) A

**Materials**
- Housing Polyamide
- Bonnet Polycarbonate
- Filter Polyethylene
- Mounting unit Stainless steel

**Option: 3/2-way solenoid valve**
- Rated voltage 24 V DC
- Capacity 1.5 W
- Flow rate 55 l/min (KV = 0.035)
- Max. operating pressure 7 bar
- Pneumatic connection Push-in L-connector QS-G 1/8 – 6 or ISO 228/1-G 1/8
Version with inductive proximity switches

Proximity switches

Solenoid valve (option)

Version with microswitches

Microswitches

Solenoid valve (option)

Fig. 3 · Electrical connection

Dimensions in mm

Pneumatic connection*

1: Supply air
2: Output

* Version with solenoid valve:
  • Push-in L-connector QS- G ¼ – 6 or
  • ISO 228/1-G ¼

The pneumatic connections of the version without solenoid valve are sealed by blanking plugs.

Specifications subject to change without notice.