

UNIONWELL G5 technical reference

G5S05-D1P025-80AU pin-plunger example

Open engineering reference | Presentation date 29 October 2026. A controlled drawing revision and model-specific product approval must be confirmed for production release.

Published reference values describe the stated series or example configuration. Confirm the complete part number, load, actuator drawing and current approval scope before design release.

Rows labelled G5 family reference describe other published family configurations; they are not guaranteed values for the named pin-plunger example.

Parameter	Published value and configuration scope
Example configuration	G5S05-D1P025-80AU - The example is one configuration, not every G5 or G5E variant.
Published ENEC/CQC rating entries	0.1 A 48 VDC; 0.1 A 125/250 VAC; 5(2.5) A 125/250 VAC - Check the exact temperature grade and approval file for the selected load.
Published UL/cUL rating entry	5 A 1/10 HP 125/250 VAC - Motor and resistive loads require different approval checks.
Circuit in this example	SPST-NO - Confirm contact arrangement against the controlled drawing.
Actuation in this example	Pin plunger / no lever - Send operating point, overtravel and mounting tolerances.
G5 family reference / Operating Frequency	Mechanical 60 cycles/min; Electrical 15 cycles/min.
G5 family reference / Insulation Resistance	$\geq 100\text{M}\Omega(500\text{VDC})$
G5 family reference / Contact Resistance (Initial Value)	$\leq 100\text{m}\Omega$
G5 family reference / VoltageResistance / Between each terminals of the same polarity	AC1000V,50/60Hz,1min.
G5 family reference / VoltageResistance / Between current-carrying metal part and ground and between each terminal and non-current carrying metal parts	AC1500V,50/60Hz,1min.
G5 family reference / Vibration Resistance	10-55Hz Double amplitude 1.5mm Alternate units: 10-55Hz Double amplitude 0.05906 in
G5 family reference / Service Life	Mechanical $\geq 10,000,000$ cycles or 1,000,000 cycles Electrical $\geq 50,000$ cycles or 100,000 cycles
G5 family reference / Unit Net Weight	Approx.6.2g(without lever)

Source references on this website

<https://unionwell-microswitch.com/library-item/e90276927c3af054/>

<https://unionwell-microswitch.com/library-item/09471c9008196218/>

For quotation: identify the complete part number, actuator/terminal, electrical load, requested quantity, annual forecast and target timing. Availability, quantity breaks and lead time are reviewed for that configuration.