



INSTRUMENTATION

Danfoss KPS Series (KPS 31 – KPS 47)

BRAND
Danfoss

SKU
RC_PROD_014

CATEGORY
Instrumentation



OVERVIEW

The Danfoss KPS series is a range of heavy-duty pressure-controlled switches engineered for demanding indoor and outdoor duty. Special attention has been given to a high level of enclosure (IP67 including IPX6 to EN 60529), robust and compact construction, and resistance to shock and vibration — making KPS the standard choice for alarm and regulation systems in factories, diesel plants, compressors, power stations, and on board ships. Contact position depends on the pressure at the inlet connection relative to the set scale value. The enamelled pressure die-cast aluminium housing (GD-ALSi 12) carries a four-screw anchored cover that can be wire-sealed.

KEY FEATURES

Pressure range
spanning 0 to 60 bar across the series

IP67 enclosure (including IPX6)
to EN 60529 — sturdy and seawater resistant

Vibration stability
2–30 Hz at 1.1 mm amplitude; 30–300 Hz at 4 g

Gold-plated contact systems
available for signal-level switching

SPECIFICATIONS

PARAMETER	VALUE
REGULATION RANGES	e.g., KPS 33: 0 – 3.5 bar · KPS 45: 4 – 40 bar · KPS 47: 6 – 60 bar
DIFFERENTIAL	Fixed (e.g., 0.2 bar on KPS 33) or adjustable (e.g., 3.5 – 17 bar on KPS 47)
ENCLOSURE	IP67 (incl. IPX6) to EN 60529

Refrigeration Controls

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Specifications per manufacturer data; subject to change without notice.

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