

Differential Pressure Switches HDPS SERIES

FOR AIR CONDITIONING / VENTILATION, USER-ADJUSTABLE

PRODUCT DATA AND INSTALLATION INSTRUCTIONS



TECHNICAL SPECIFICATIONS

Max. operating pressure	10 kPa
Pressure media	air, non-flammable gases, and non-aggressive gases
Pressure connections	two plastic tubes, outside diameter: 6.0 mm
Switching capacity	1.5 A, (0.4) /250 Vac
Electrical connections	AMP connectors, 6.3 x 0.8, DIN 46244 or screw terminals
Conduit entry	M20x1.5
Protection class	IP 54
Mounting lugs	integrated in bottom housing (alternative: mounting angles)
Medium/ambient temp.	-20...+85 °C
Storage temperature	-40...+85 °C
Membrane material	silicone

APPLICATION

Differential pressure switches e.g. for monitoring filter, fan, fire damper, or air flow status of air handling systems.

BENEFITS

- Switching-point easily adjustable with scale in Pascal;
- Direction of M20x1.5 conduit entry can be rotated in steps of 120°;
- Only one screw needed for housing cover.

APPROVALS

- CE approval according to low-voltage directive 2006/95/EC;
- Switch according to VDE 0630;
- EC Gas Appliance Directive 90/396/EEC according to DIN EN 1854 (Nov. 01, 1997)
- ROHS 2002/95/EC

CONTENTS OF DELIVERY

The delivery includes (in the case of individual packages) the following parts:

- **1 HDPS Differential Pressure Switch**
- **1 Data Sheet with installation information**
- **1 HADK duct kit, consisting of:**
 - 2.1 m of PVC hosing
 - 2 joining pipes with four screws
 - 2 self-tapping screws for mounting the housing
 - 3 terminal screws for electrical installation

OPERATING RANGES

type	adjustment range for upper trip pressure*	switching difference (hysteresis)	tolerance at adjusted switch-point
HDPS-300	20...300 (Pa)	10 (Pa)	±20%
HDPS-400	40...400 (Pa)	20 (Pa)	±15%
HDPS-500	50...500 (Pa)	20 (Pa)	
HDPS-1000	200...1000 (Pa)	100 (Pa)	
HDPS-2500	500...2500 (Pa)	150 (Pa)	

*The trip pressure refers to vertical mounting. In case of horizontal mounting (with the cover pointing upwards), the range values increase by 20 Pa.

DIMENSIONS

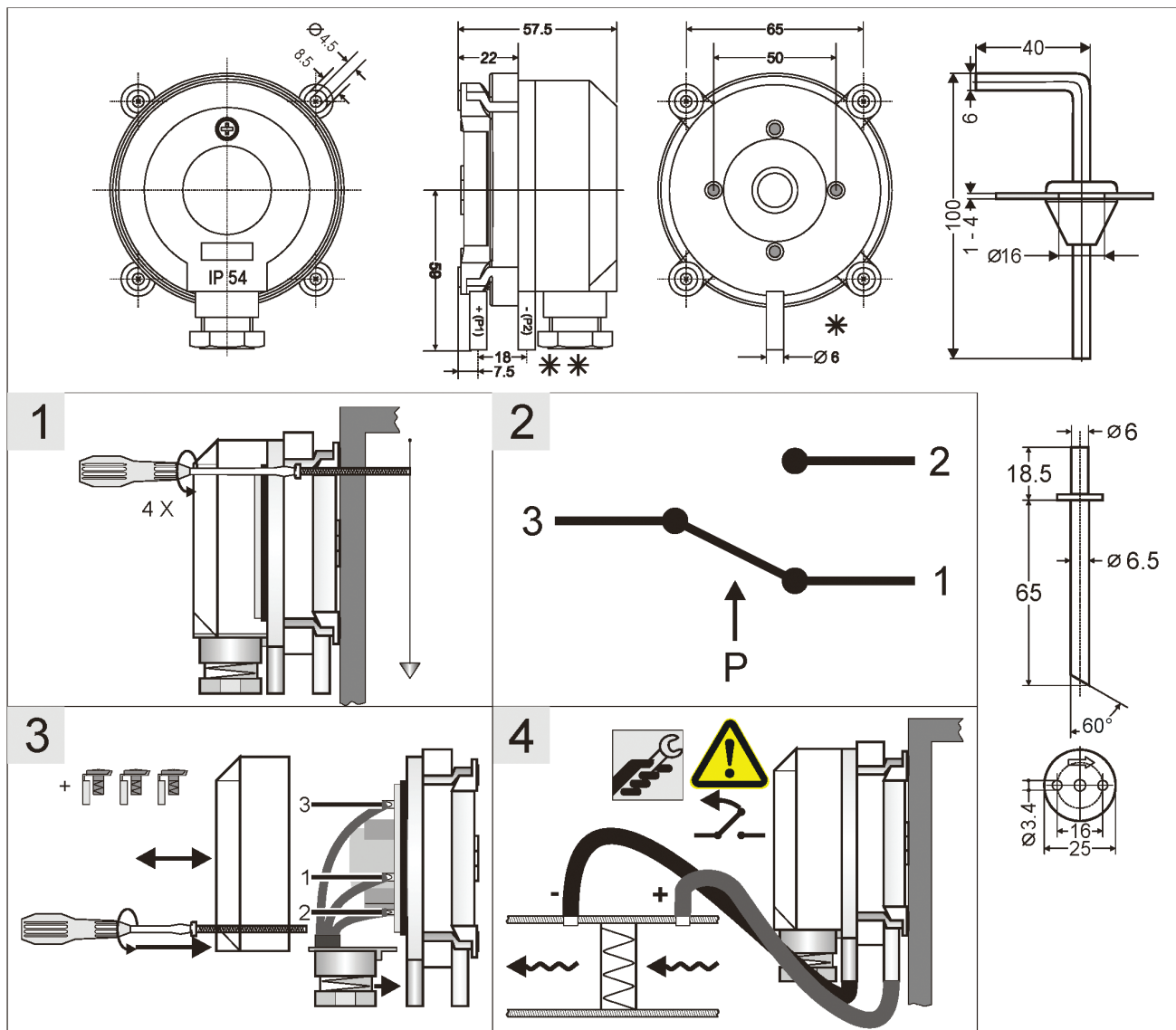
See "Mounting/Einbau/Montage" on page 4.

ACCESSORIES / DELIVERY OPTION

Order No.:

- HSPT: Plastic Static Pressure Sensor (part of HADK)
- HADK: Duct Kit, includes 2.1 m PVC hose and two static pressure sensors

MOUNTING



P1 = higher pressure

P2 = lower pressure

*Use two screws, only, for mounting lugs!

**Remove transport protection from P2!

NOTE: Do not install upside down with trip pressures of less than 50 Pa!

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