

### XHP 3: Pneumatic manual switch

For the change-over switching of pneumatic signal lines, ideally for drives.

Housing of plastic; rotary knob with exchangeable scales; compressed air connected via soft plastic tubing onto push-on connectors of 4 mm internal diameter; suitable for fitting into panels or onto walls or rails (C EN 50024 or EN 50022 [with accessory]).

Type	$k_v$ -value water $\Delta p = 1$ bar	Nominal flow $Q_N$ 1 bar with respect to atmosphere	Weight kg
<b>XHP 3 F001</b>	0.11 m <sup>3</sup> /h	3.0 m <sup>3</sup> /h	0.03
Max. leakage rate (2.5 bar → 0)	1.2 l <sub>n</sub> /h	Connection diagram Dimension drawing Fitting instructions	<a href="#">A03322</a>
Permissible pressure or differential pressure	2.5 bar		<a href="#">M297193</a>
Permissible ambient temperature	0...70 °C		none



T03069



#### Accessories

**0296936 000\*** Fixing bracket for rail EN 50022, 35 × 20.5 and 35 × 15.

**0296937 000\*** Fixing bracket for C-rail EN 50024-C 20 and for wall mounting.

**0296990 000\*** Buckle-proof adaptor for screw-type installation, MV 7322.

**0296218 000\*** Buckle-proof adaptor for push-on installation.

\*) Dimension drawing or wiring diagram are available under the same number

Universal scale (enclosed)	'Open-closed' scale (fitted)	'Manual-closed' scale (rear)	Operation
1	closed	closed	Passage from 1 to 0
2	Aut.	Aut.	Passage from 2 to 0
3	open	open	Passage from 3 to 0
4	Stop	Stop	No passage to 0

#### Operation

The dial turns on four O-rings and locks into one of four positions.

#### Further technical information

Flow rate at other pressures:-

$$\text{Water: } \dot{V} = k_v \cdot \sqrt{\Delta p}$$

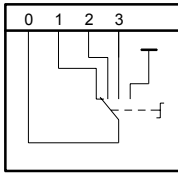
$$\text{Air: } \dot{V} = \dot{V}_N \cdot \sqrt{\Delta p \cdot p_2}$$

$\Delta p$  = pressure difference (bar)

$p_2$  = absolute pressure, non-pressure side (bar)

$\dot{V}_N$  = nominal flow

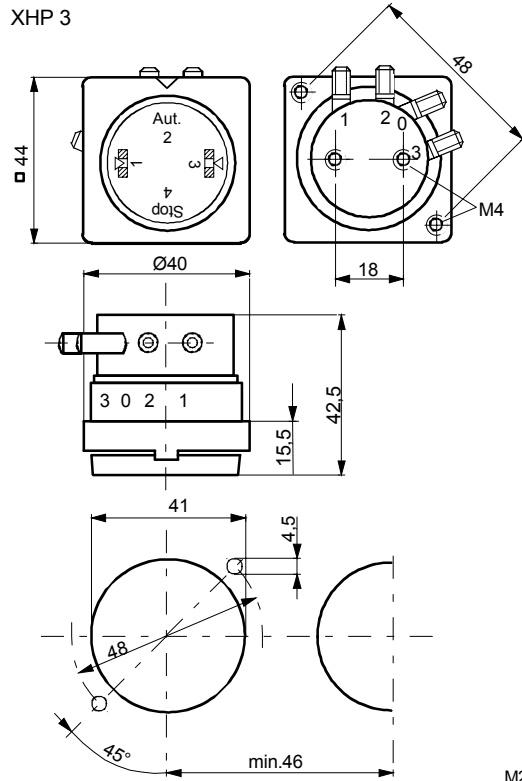
Connection diagram



A03322

Dimension drawing

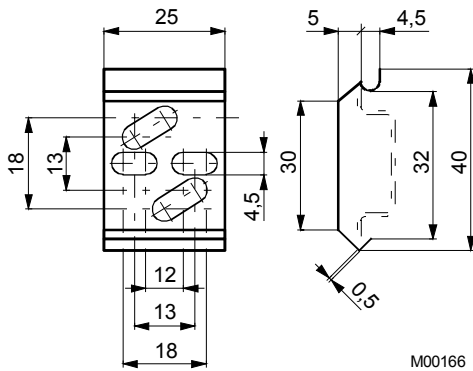
XHP 3



M297193d

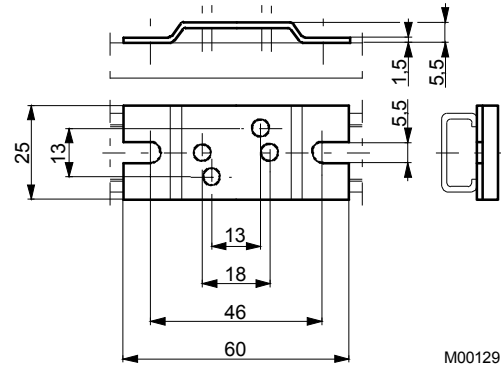
Accessories

296936



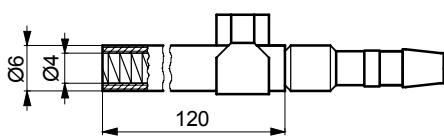
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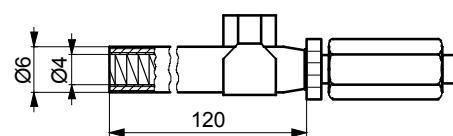
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