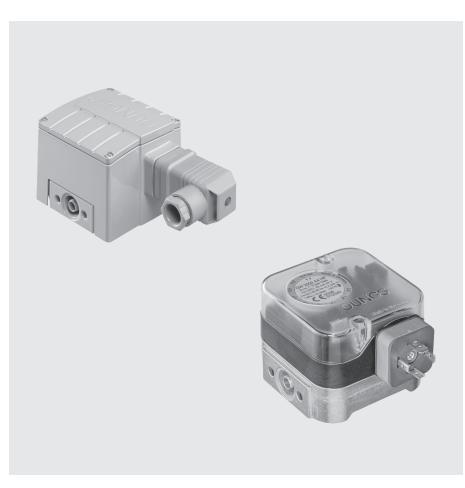
High-pressure switch for gas, air, flue gases and combustion products

GW...A4 HP GW...A4/2 HP



5.04



Technical description

The GW...A4 HP pressure switch is an adjustable pressure switch as per EN 1854 (GW 6000 A4 as per DIN 3398T3) for burners.

It is suitable for closing, opening or switching over a current circuit when the actual pressure value deviates from the specified pressure setpoint. The specified pressure setpoint (operating point) is set at a setting wheel using a scale.

Application

Pressure monitoring in burner control systems

Suitable for gases of gas families 1,2,3 and other neutral gaseous media, as well as air, flue gases and combustion products.

Approvals

EC type testing certificate as per:

- EC-Gas Appliances Regulation
- EC-Pressure Equipment Directive

Approvals in other important gasconsuming countries.

Functional

Pressure switch for applications involving excess pressure.

GW...A4 HP

The pressure counteracts the force of the setting spring on the micro-switch via the metal bellows. The pressure switch does not require power assistance.

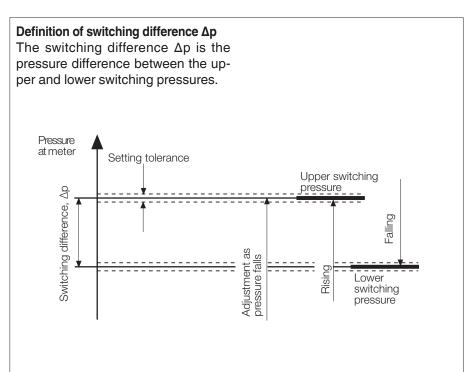
Pressure switch GW...A4 HP

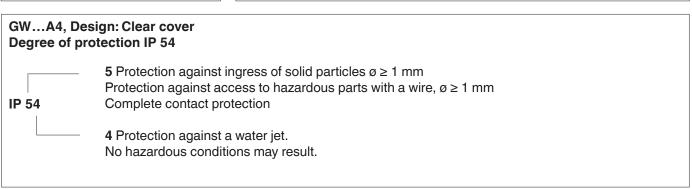
The switching mechanism reacts to overpressure and closes, opens or switches over a current circuit when the specified pressure setpoint is overshot or undershot.

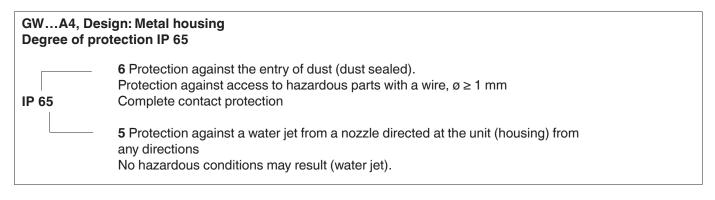
All gas-carrying parts are made of 1.4541 stainless steel and, therefore, are suitable for:

- applications involving operating pressures greater than 600 mbar
- aggressive media such as sulphuric acid up to a concentration of 1.0 % by vol., humid
- fluids (on request)

Switching function As pressure rises: 1 NC opens, 2 NO closes. As pressure falls: 1 NC closes, 2 NO opens. COM Tokyonia I NC P



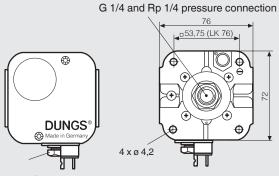




Specifications

Max. operating pressure	GW 500 A4 HP	p_{max} = 2 bar (gas) @ setting range 0.1 - 0.15 b p_{max} = 5 bar (gas) @ setting range 0.15 - 0.5 b					
	GW 2000 A4 HP GW 6000 A4 HP	$p_{max} = $	5 bar (gas) 3 bar (gas)				
Pressure connection	p+: centrally on underside of housing internal thread G 1/4 and Rp 1/4, Gas or air						
Temperature range	Ambient temperature Medium temperature Storage temperature	-15 °C to +70 °C -15 °C to +70 °C -30 °C to +80 °C					
Materials	GWA4 HP Housing lower section Switch Switching contact Metal bellows Hood	aluminium die casting polycarbonate standard: silver gold-plated (Au), suitable for DDCapplications: DC 24 V; 0,02 A 1.4541 (stainless steel) polycarbonate					
	GWA4/2 HP Hood						
Switching voltage	DDQ	AC eff.	min. 24 V min. 24 V	max. 250 V max. 48 V			
Nominal current	DDC application: DDC application:	AC eff. DC max.	min. 5 V 10 A 20 mA	max. 24 V			
Switching current	DDC application:	AC eff. AC eff. DC DC	min. 20 mA min. 20 mA min. 5 mA	max. 6 A with cos φ 1 max. 3 A with cos φ 0,6 max. 1 A max. 20 mA			
Electrical connection	Plug connection for line sockets as pert DIN EN 175 301-803, 3-pin with protection contact						
Degree of protection	GWA4 HP GWA4/2 HP	IP 54 to IEC 529 (EN 60529), (clear hood) IP 65 to IEC 529 (EN 60529), (metal housing)					
Adjustment	With rising pressure and installed in a vertical position. Optional rising or dropping pressure adjustment on-site possible. Note switch point change if installation position changes						
Setting tolerance	$\pm 15\%$ switch point deviation based on the setpoint and with unit installed in a vertical position						
Deviation	Permissible deviation of the set value \leq \pm 15 % in the service life test according to EN 1854						

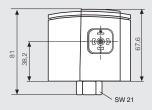
Dimensions [mm] GW...A4 HP



M20 x 1.5 or plug-type connection for cable socket according to DIN EN 175 301-803

GW...A4/2 HP IP 65

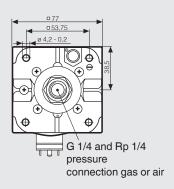
with metal housing, plug-in connection for sockets in according to DIN EN 175 301-803



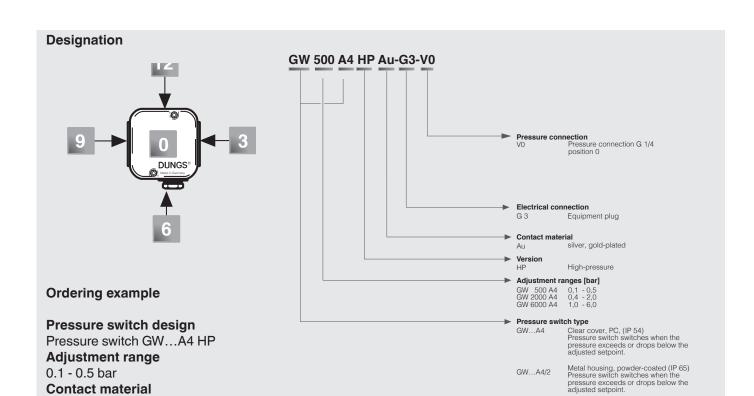
4 self-tapping cylinder bolts M3 x 14 slot 0.8 and cross slot to DIN 7962-Z2



SW = Wrench width



Installation position Standard installation position; if a different installation position is used, pay attention to the changed operating points: GW 500 A4 HP ca. ± 0,010 bar **GW 2000 A4** HP ca. ± 0,020 bar **GW 6000 A4** HP ca. ± 0,080 bar When installed horizontally, the pressure switch switches at a pressure higher When installed horizontally overhead, the pressure switch switches at Щ a pressure lowe



Accessories for pressure switches GWA4 HP	Bestell-Nr.
Kit: G3 equipment plug, 3-pin + E for GWA4	219 659
Line sockets, 3-pin + E grey GDMW for GWA4,GWA4/2	210 318
Fluorescent lamp assembly kit 230 V yellow	231 773
Fluorescent lamp assembly kit 120 V yellow	231 772
Display LED assembly kit 24 V yellow	231 774
Fluorescent lamp assembly kit 230 V green	248 239
Display LED assembly kit 24 V green	248 240

Au

Electrical connectionG3 equipment plug

V0; at position 0

G 1/4 pressure connection

GW 500 A4 HP [Au-M-V0]

High-pressure switch for gas, air, flue gases and combustion products

GW...A4 HP GW...A4/2 HP



Technical overview 1 bar = 1000 mbar = 100 kPa ≈ 10000 mm WS

Туре	Version [Au-G3-V0]	Order No. 1 piece	Setting range [bar] ± 15 %	p _{max} [bar]	Degree of protection	Different sure switch p min.	•
GWA4 HP Pressure switch	GW 500 A4 HP	254 285	0.1 - 0.5	2 @ 0.1 - 0.15 bar 5 @ 0.15 - 0.5 bar	IP 54	≤ 0,03	≤ 0,03
	GW 2000 A4 HP	254 286	0.4 - 2.0	5	IP 54	≤ 0,05	≤ 0,10
	GW 6000 A4 HP	254 287	1.0 - 6.0	8	IP 54	≤ 0,30	≤ 0,30
with line socket							

Туре	Version [Au-G3-V0]	Order No. 1 piece	Setting range [bar] ± 15 %	p _{max} [bar]	Degree of protection	Different sure switce p min.	•
GWA4/2 HP Pressure switch	GW 500 A4/2 HP	254 282	0.1 - 0.5 🔃	2 @ 0.1 - 0.15 bar 5 @ 0.15 - 0.5 bar	IP 65	≤ 0,03	≤ 0,03
	GW 2000 A4/2 HP	254 283	0.4 - 2.0 🔟	5	IP 65	≤ 0,05	≤ 0,10
	GW 6000 A4/2 HP	254 284	1.0 - 6.0 🔃	8	IP 65	≤ 0,30	≤ 0,30
with line socket							

We reserve the right to make any changes in the interest of technical progress.

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