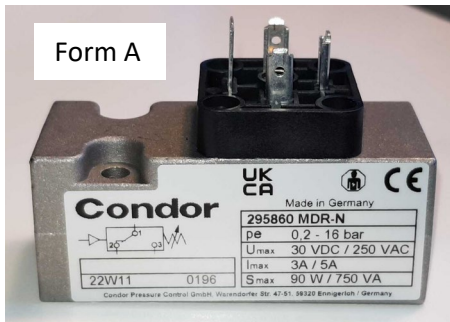




BETRIEBSANLEITUNG MDR-N

Der Condor-Druckschalter ist zum Zeitpunkt seiner Entwicklung und Fertigung nach geltenden, anerkannten Regeln der Technik gebaut und gilt als betriebssicher. Es können jedoch vom Druckschalter Gefahren ausgehen, wenn dieser von nicht fachgerecht ausgebildetem Personal, unsachgemäß oder nicht bestimmungsgemäß verwendet wird. Es sind die **Sicherheitsinformationen** und die örtlichen gesetzlichen Vorschriften zwingend einzuhalten. Die Druckschalter dienen der Überwachung und Steuerung von Prozessen in Abhängigkeit des anstehenden Druckes.

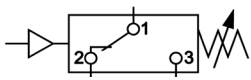


Form A

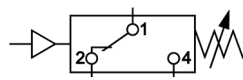


M12x1

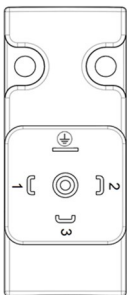
M12 Anschluss um 90° drehbar und je 30° rastbar, Kodierung A



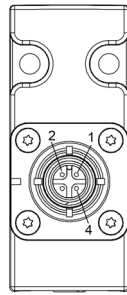
> 0 bar



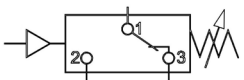
> 0 bar



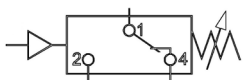
Form A



M12x1



Vakuum



Vakuum

Technische Daten	
Umgebungstemperatur min...max	-20°C...+80°C
Umgebungstemperatur max. UL	Tab.3
Schaltelement Mikroschalter	Wechsler
Einbaulage	beliebig
Schutzart Form A (DIN EN 175301-803A)	IP 65
Schutzart M12x1	IP 67
Mechanische Lebensdauer (Schaltspiele)	> 1 x 10 ⁷
Max. Schalhäufigkeit	30 / min
Schaltpunktwiederholgenauigkeit (20°C)	± 2 % FS (> ± 0,1 bar)

Tab.1

Schaltvermögen Form A (DIN EN 175301-803A)					
Max. zulässiger Dauerstrom I max. [A] bei Induktiver Belastung					
U [V]	30	48	60	125	250
I [A] AC	3	3	3	3	3
I [A] DC	2	0,55	0,4	0,05	
Max. zulässiger Dauerstrom I max. [A] bei ohmscher Belastung					
U [V]	30	48	60	125	250
I [A] AC	5	5	5	5	5
I [A] DC	3	1,2	0,8	0,4	
Schaltvermögen M12x1					
Max. zulässiger Dauerstrom I max. [A] bei Induktiver Belastung					
U [V]	30				
I [A] AC	3				
I [A] DC	2				
Max. zulässiger Dauerstrom I max. [A] bei ohmscher Belastung					
U [V]	30				
I [A] AC	4				
I [A] DC	3				

Tab.2

Elektr. Nennwerte gemäß UL 508 und CSA C22.2 NO. 14-18			
Typ	Max. Schaltstrom	Feldverdrahtung	Anzugsmoment [Nm]
Form A	5A, 250 VAC, GP	20-14 AWG Str. *	0,4
M12x1	4A, 30 VAC, GP	min. 22 AWG Str.	-
Umgebungstemperatur max.			+75°C

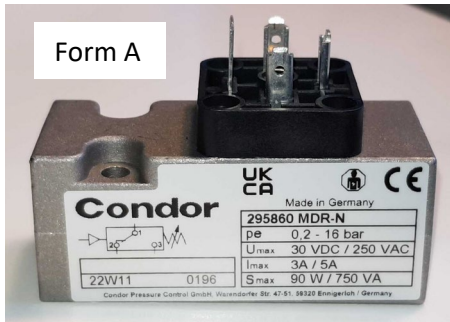
*Kabeldurchmesser 6-8 mm

Tab.3

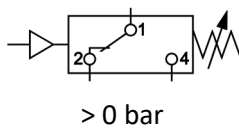
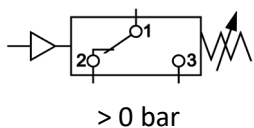


OPERATING INSTRUCTION MDR-N

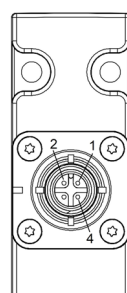
Condor pressure switches were built according to the relative and approved regulations of the time period when they were developed and produced and are considered to be safe during operation. However, this device can present risks if it is used by personnel without specialist training, or is used inappropriately or in an unapproved manner. The **safety data sheet** and the local legal regulations are to be strictly observed. The pressure switches serve the surveillance and control of processes, operations of pumps and compressors in dependence on the prevailing pressure.



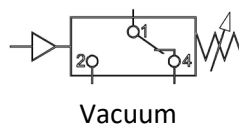
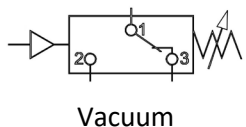
M12 connection rotatable by 90° and 30° with detent, A coding



Form A



M12x1



Technical Data	
Ambient temperature min...max	-20°C...+80°C
Ambient temperature max. UL	Tab 3.
Switching element micro switch	SPDT
Installation position	any
Degree of protection Form A (DIN EN 175301-803A)	IP 65
Degree of protection M12x1	IP 67
Mechanical durability operating cycles	> 1 x 10 ⁷
Max. operating cycles	30 / min
Switching point repeatability (20°C)	± 2 % FS (> ± 0,1 bar)

Tab.1

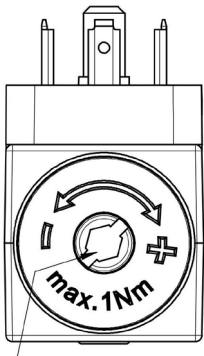
Switching capacity Form A (DIN EN 175301-803A)						
Max. permissible steady current I max. [A] on inductive load						
U [V]	30	48	60	125	250	
I [A] AC	3	3	3	3	3	
I [A] DC	2	0,55	0,4	0,05		
Max. permissible steady current I max. [A] on ohmic load						
U [V]	30	48	60	125	250	
I [A] AC	5	5	5	5	5	
I [A] DC	3	1,2	0,8	0,4		
Switching capacity M12x1						
Max. permissible steady current I max. [A] on inductive load						
U [V]	30					
I [A] AC	3					
I [A] DC	2					
Max. permissible steady current I max. [A] on ohmic load						
U [V]	30					
I [A] AC	4					
I [A] DC	3					

Tab.2

Electrical nominal values according to UL 508 und CSA C22.2 NO. 14-18			
Type	Maximum switching current	Wiring in the field	Tightening torque [Nm]
Form A	5A, 250 VAC, GP	20-14 AWG Str. *	0,4
M12x1	4A, 30 VAC, GP	min. 22 AWG Str.	-
Ambient temperature max. UL			+75°C

*cable-Ø 6-8 mm

Tab.3



Innensechskant SW5
mit Schlitz
Hexagon socket SW5
with slot

Druckbereich	Werkseinstellung
0,2 - 16 bar	3 bar steigend
3,5 - 11 bar	3 bar steigend
0,3 - 6 bar	3 bar steigend
0,2 - 2 bar	1 bar steigend
-0,9 - 0 bar	-0,4 bar fallend
-0,9 - +3 bar	1 bar steigend

Pressure range	Factory setting
0,2 - 16 bar	3 bar rising
3,5 - 11 bar	3 bar rising
0,3 - 6 bar	3 bar rising
0,2 - 2 bar	1 bar rising
-0,9 - 0 bar	-0,4 bar falling
-0,9 - +3 bar	1 bar rising

Schaltpunkt erhöhen,
Einstellschraube in „+“ Richtung drehen

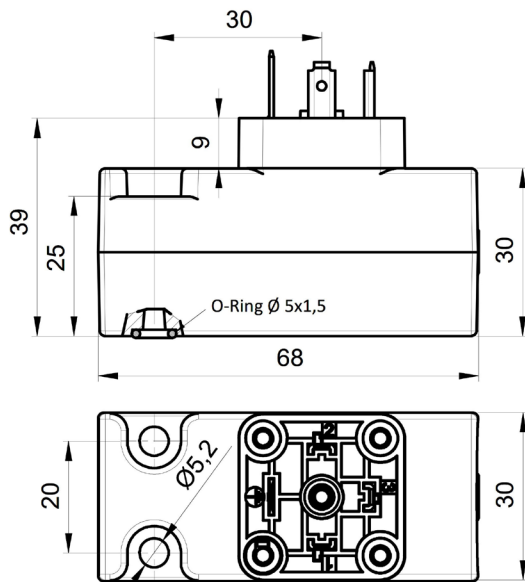
Schaltpunkt verringern,
Einstellschraube in „-“ Richtung drehen

Achtung: Drehmoment für Einstellschraube max. 1Nm

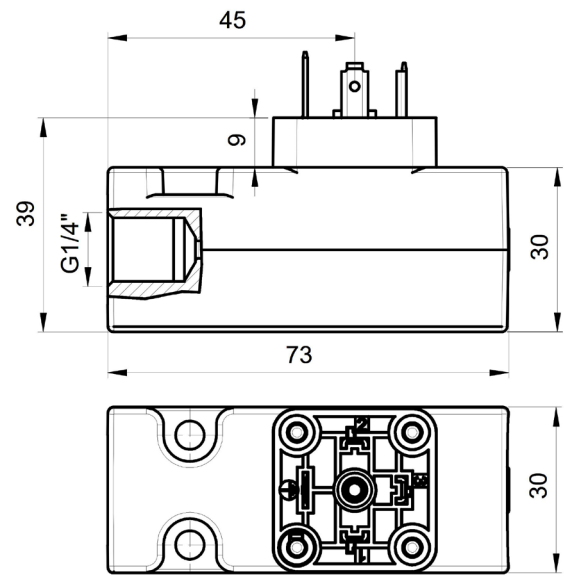
Increase switching point,
turn the adjusting screw in the "+" direction

Reduce switching point,
turn the adjusting screw in the "-" direction

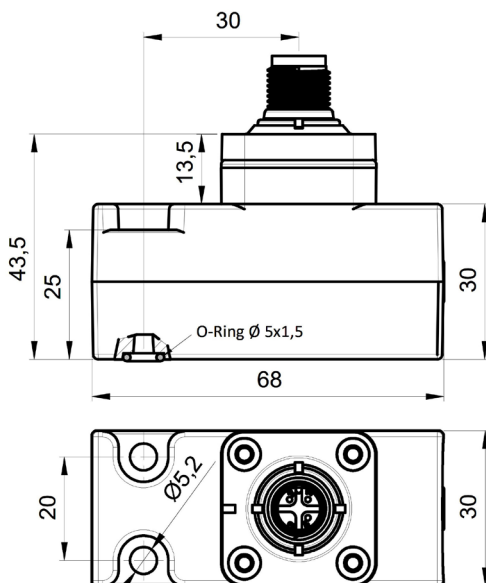
Attention: Torque for adjusting screw max. 1Nm



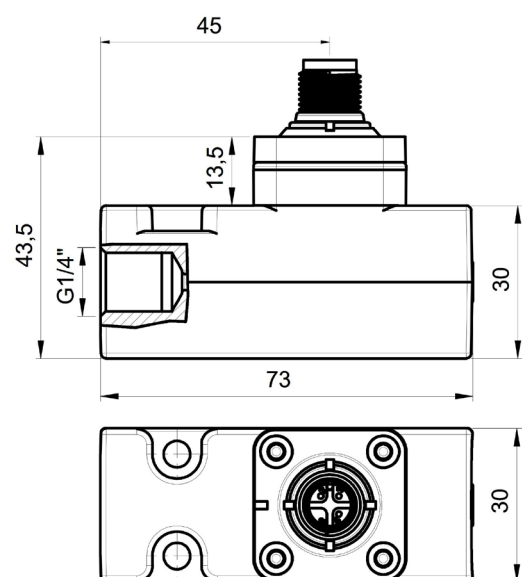
Form A, pneumatischer Anschluss Flansch
Form A, pneumatic flange connection



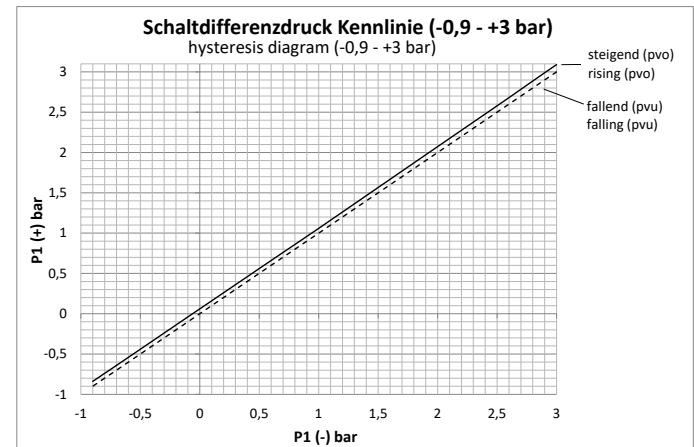
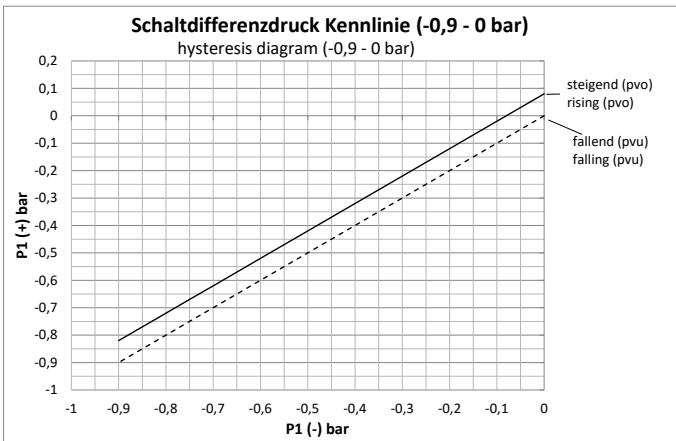
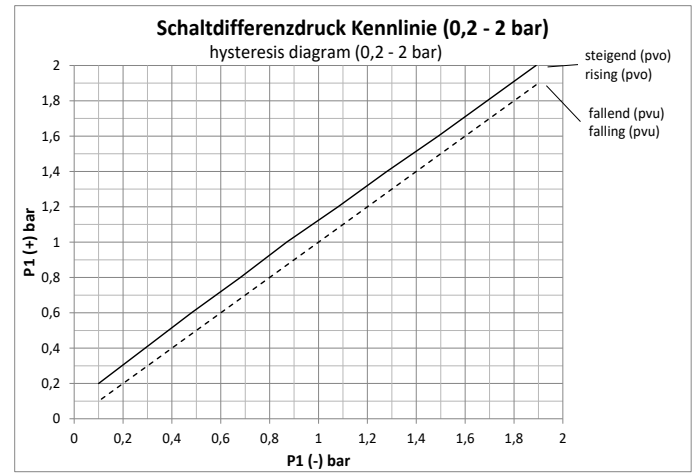
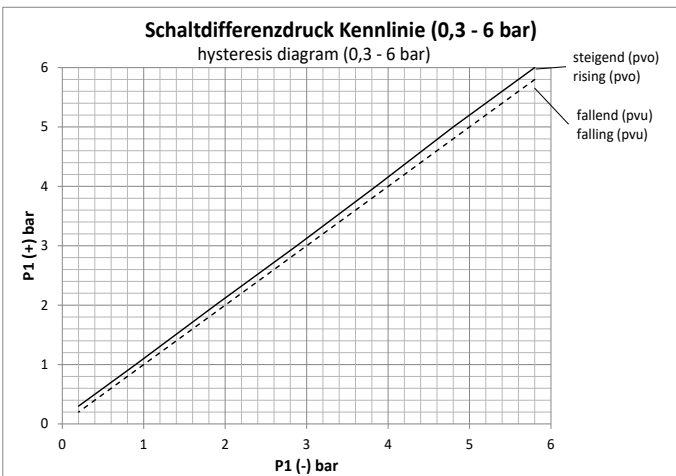
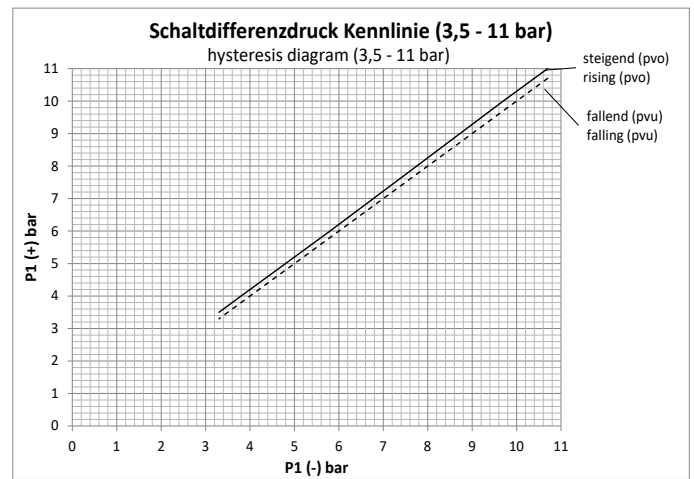
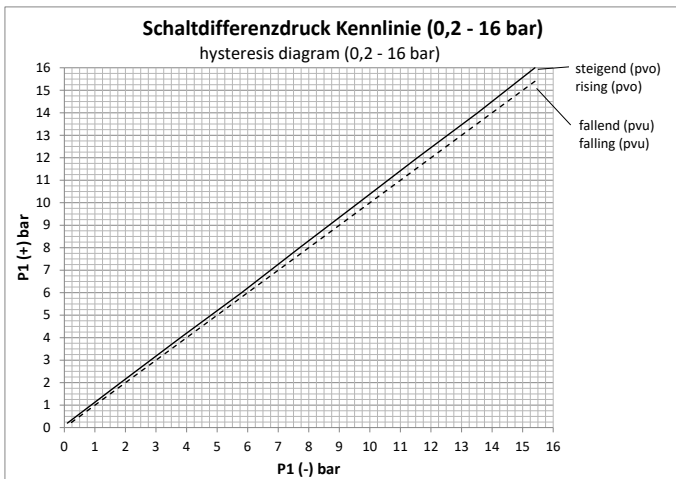
Form A, pneumatischer Anschluss G1/4"
Form A, internal thread G1/4"



M12x1, pneumatischer Anschluss Flansch
M12x1, pneumatic flange connection



M12x1, pneumatischer Anschluss G1/4"
M12x1, internal thread G1/4"



Ratgebervideo: Druckwerte einstellen - You Tube

How-to videos: Adjust pressure values – You Tube

https://www.youtube.com/channel/UC10vgkmZIH3gxVlxZ5B5WDQ/videos?shelf_id=0&view=0&sort=dd



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