Data Sheet

Electrical contact devices K5500 for

pressure and temperature gauges According to DIN 16085 and DIN 16196

FEATURES

- Intrinsically safe with inductive contacts
- Inductive and magnetic spring contacts
- Up to 3 contacts
- Switch rating up to 1 A 250 VAC
- For dry or liquid filled gauges

TYPICAL USED IN

- Pressure gauges T5500-KF, T6500-KF P5500, P6500 F5503 F5509, F6509
- Temperature gauges S5500

MEASURING TYPE:		PRESSURE		DIFFERENTIAL PRESSURE		TEMPERATUR		
Measuring Principle:	Bourd	en tube	Diaph	iragm	Diaph	iragm	Gas a	ctuated
MODEL:	T550	00-KF	P58	500	F5503 /	/ F5509	S 5	500
Dial Size:	100	160	100	160	100	160	100	160
Min Range:	in	bar	in m	ıbar	in m	ıbar	in	°C
- 1 inductive	1	1	50) ¹⁾	1(00	no lim	itations
- 2 inductive	1,6	1,6	1(00	1(00	no lim	itations
- 1 magnetic spring	1	1	16	50	1(00	no lim	itations
- 2 magnetic spring	1,6	1,6	25	50	10	00	no lim	itations
- 3 magnetic spring	4	2,5	40	00	1(00	no lim	itations
Note 1) For liquid filles gauges	s min snan is 100 n	har						

Note 1) For liquid filles gauges min. span is 100 mbar

TECHNICAL SPECIFICATIONS OF THE CONTACTS				
	MAGNETIC SPRINGS CONTACT	INDUCTIVE PROXIMITY CONTACT		
Max. Contacts:	3	2		
Switching Functions:	1 closes at increasing process pressure 2 opens at increasing process pressure 3 change over (SPDT) with max. 2 contacts	1 initiator damped at increasing process pressure (relay energized) 2 initiator free at increasing process pressure (relay de-energized)		
Contact Assignment:	Contact 1 left hand setpoint Contact 2 right hand setpoint with 2 contacts and middle setpoint with 3 contacts Contact 3 right setpoint with 3 contacts			
Adjustable Range:	Full Range			
Hysteresis (Deadband):	±2 to 4 % F.S.			

All specifications are subject to change without notice. All sales subject to standard terms and conditions. ©2022 Ashcroft Instruments GmbH G1.K55 EN Rev. A 04/2022

ashcroft.eu sales@ashcroft.com +49 (0) 2401/808-0





Data Sheet



Electrical contact devices K5500 for pressure and temperature gauges According to DIN 16085 and DIN 16196

MAGNETIC SPRINGS CONTACT		INDUCTIVE PROXIMITY CONTACT		
Standard:		DIN EN 60947-5-6 (NAMUR)		
Design:		SJ2-N or SJ2-SN ²⁾	SI2-K08-Y1	
Making and breaking current:	Max. 1 A/250 VAC (see switching capacity graph)			
Nominal current:	Max. 0,6 A			
Load:	Max. 30 W/50 VA (see switching capacity graph)			
Current consumption non actuated: actuated:		≥ 3 mA ≤1 mA	≥ 2,1 mA ≤1,2 mA	
Internal inductance Li:		≤ 100 µH	≤ 266 µH	
Internal capacitance C _i :		≤ 30 nF	≤ 41 nF	
Note 2) Only to be used in conjunction with an suitable and/or approved amplifier				

ELECTRICAL CONN			
Location:	Left sided, others on request		
Material:	Polyamide 6		
Number of Terminals:	6 + PE		
Max. Wire Size:	2,5 mm ²		
Cable Connection:	M20x1,5		
Protection according EN 60529/IEC 529:	IP54 IP65 for fillable version		
GENERAL SPECIFICATION			
Material of Contacts:	Silver palladium (AgPd 80/20), min 24 VDC Optional Sinidur gold plated, max 12 VDC	-	
Accuracy:	150 % compared to gauges without contacts according to EN 837-1, EN 837-3, DIN 16001, DIN 16003 or EN 13190		
Min./Max. Temperatures:	Ambient: -20 to 70 °C Storage: -40 to 70 °C		
Min./Max. Temperatures: (ATEX)	Ambient: -20 to 60 °C Storage: -40 to 70 °C		
Filling Fluids:	Korasilon (Magnetic spring contacts)	White oil (Inductive proximity contacts)	
Mounting:	Integral in gauge housing		
Additional weight:		Amplifier relay for inductive contacts Ex and standard	

Ashcroft Instruments GmbH • sales@ashcroft.com • www.ashcroft.eu

Deutschland / Germany Max-Planck-Str. 1 D-52499 Baesweiler Tel.: +49 (0) 2401 808-0 For more information on support and local partners please visit our web page at ashcroft.eu or follow the QR-Code





Data Sheet

Electrical contact devices K5500 for pressure and temperature gauges

According to DIN 16085 and DIN 16196

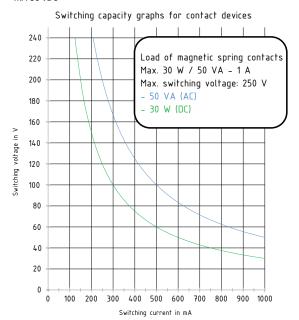
MAGNETIC SPRING CONTACTS				
Contact code	Switch function at increasing process pressure	typical diagram (at zero position)		
	Single contac	ot		
M1000	Contact closes			
M2000	Contact opens			
	Dual contac	t		
M1100	Contact 1 closes Contact 2 closes			
M2200	Contact 1 opens Contact 2 opens			
M1200	Contact 1 closes Contact 2 opens			
M2100	Contact 1 opens Contact 2 closes			
	Triple contac	t		
M1110	Contact 1 closes Contact 2 closes Contact 3 closes			
M2220	Contact 1 opens Contact 2 opens Contact 3 opens			
M1220	Contact 1 closes Contact 2 opens Contact 3 opens			
M2110	Contact 1 opens Contact 2 closes Contact 3 closes			
M1210	Contact 1 closes Contact 2 opens Contact 3 closes			
M2120	Contact 1 opens Contact 2 closes Contact 3 opens			
M1120	Contact 1 closes Contact 2 closes Contact 3 opens			
M2210	Contact 1 opens Contact 2 opens Contact 3 closes			

INDUCTIVE PROXIMITY CONTACTS			
Contact code	Switch function at increas- ing process pressure	Equivalent circuit diagram (at zero position)	Position of control vane (at zero position)
	Single of	contact	
11000	Current flows	\backslash	
11000SN	ourient nows		
12000	No current flows	7	
12000SN	No current nows		
	Dual c	ontact	
11100	Contact 1 current flows Contact 2 current flows	$\left[\left(\right) \right]$	
11100SN			
12200	Contact 1 no current flows	77	-3
12200SN	Contact 2 no current flows		
11200	Contact 1 current flows	7 /	
11200SN	Contact 2 no current flows		
12100	Contact 1 no current flows	77	
12100SN	Contact 2 current flows		

MICROSWITCH SPDT²)

Contact code	Temperature	
CUILLACT COUR	S5500	
Q3	all ranges	
Q33	(no case filling)	

Note 2) Max. Rating 3 A 250 VAC / 400 mA 30 VDC



Ashcroft Instruments GmbH • sales@ashcroft.com • www.ashcroft.eu

Deutschland / Germany Max-Planck-Str. 1 D-52499 Baesweiler Tel.: +49 (0) 2401 808-0 For more information on support and local partners please visit our web page at ashcroft.eu or follow the QR-Code

