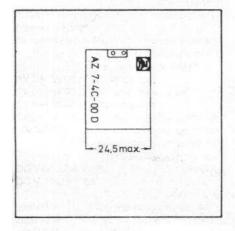
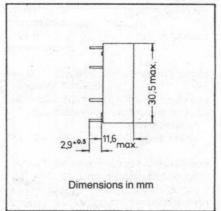
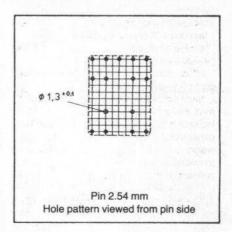




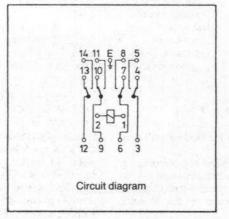
Flatformrelays







AZ 7-4C-..D dustproof according to DIN 40 050 Class IP 52



AZ 7-4C-..DE sealed according to DIN 40 050 Class IP 67



Authorisation: UL : File E 43203 CSA: File LR 36664-8 for contact pins 2 A/30 V DC or 0.5 A/125 V AC



The AZ 7 relay family completes the ZETTLER flatform relay programme. They are available in dustproof (IP 52) and sealed (IP 67) models. The small surface area and the low height enable it to be used on boards

15 mm apart with good surface usage. The connection pins can be flow-soldered provided the soldering recommendations given are followed. The AZ 7 relays are highly reliable and have a long service life, making them especially suitable for plant controllers, alarm systems and telephone systems.

AZ 7-4C has 4 change over contact sets. The contacts are welded as bi-furcated contacts. The grid is standard grid 1/10" (2.54 mm).

Technical Data

General	
shock resistance 1)	10 g
vibration resistance at 1	0-55 Hz
double amplitude	1.5 mm
pick-up time at	
rated excitation	10 ms (typical)
drop off time at	
rated excitation	4 ms (typical)
max. switching rate	50 Hz
isolation resistance	$>$ 1000 M Ω
dimensions	see page 1
weight	approx. 16 g
mounting position	any
connection	tinned
1) Contact breaks	shorter than 10 µs

Coil side					
operating voltages	see list				
(sp	ecial models on request)				
drop out voltage	> 10 %				
	of rated voltage				
pick up excitation	normal sealed				
AW	approx.100 approx.112				
pick up power mW	approx.235 approx.310				
permissable surroun for operation with rated voltage °C	-40+60 -40+50				
maximum permissat	ole continuous dissipa-				
tion (cold dissipati	그리트 () 이렇게 되었다. 사람들은 사람들이 되었다면 할 때 없는 것이 되었다. 그 사람이 되었다면 하다 모든 모든 모든 것이 없다면 하다 되었다면 하다 되었다면 하다 되었다면 하다 되었다면 하다 되었다면 하다 되었다면 하는데				
surrounding temper					
permissable final ter					
permissable storage					
with protective car	AND THE PARTY OF T				
sealed model	-55 °C +65 °C				
test voltage					
coil-frame	1500 Vrms				
Inductance (H) at					
rated excitation	approx. 1.8 x 10 ⁻⁷ x N ²				

Contact side	
type of contact 4 change over contacts (double contacts)	
contact material AgNi + 10 μ m Au 2)	
switching power at constant resistance load	
max. up to 30 V: 60 W/ 60 VA	
max. up to 60 V: 50 W/100 VA	
max. up to 250 V: 30 W/220 VA	
switching voltage at max. 250 V DC/AC	
switching current at max. 2 A DC/AC	
insulated for voltage reference	
according to VDE 0110	
Gr. B 250 V AC/300 V DC	
Gr. C 60 V AC/75 V DC	
test voltage	7
between contacts and coil 1500 Vrms	
between change over contacts 1500 Vrms	
between open contacts 750 Vrms	
mechanical service life 10 ⁸ operations	
2) Special material AgPd + 10 μm Au	
available on request	

Soldering and cleaning recommendations for models with dust proof cap.

We recommend a flux which is non-aggressive and non-creeping e.g. ZEVA FLUX C3. The board should not be flooded otherwise the flux could reach the component side. Max. soldering temp. +270 °C, soldering time 5 seconds. Relays should not be dipped into the cleansing solution!

Careful cleaning with a brush is permitted. We recommend the cleansing agents Freon and Kaltron.

Soldering and cleaning recommendations for sealed models

The afore mentioned sealed models are guaranteed also against normal fluxes, soldering and cleaning processes of flat form group constructions. The models can also be immersed into the solution. Limits are: soldering temp. max. 270 °C, soldering time max. 5 seconds, temperature of cleansing solution max. +80 °C, washing time max. 30 seconds, supersonic pressure max. 0.5 bar. We recommend water with wetting agents, Isopropylalcohol, trichlorethylene for cleaning. Aceton, aqueous alkalines and Phenols should be avoided.

If these sealed models are necessary for operations please request further information on electrical operation conditions.



Relays AZ 7-4C

Order numbers

Detectively	Desistense	No office					
Rated voltage V DC	Resistance ± 10 % at 20 °C Ω	No. of turns	Pick-up voltage at 20 °C V DC	Drop-out voltage at 20 °C V DC	Operating voltage at 40 °C V DC		Order number
					min.	max.	
5	53	1500	3,6	0,5	4,3	7,5	AZ7-4C- 5D
6	90	2000	4,2	0,6	4,9	10	AZ7-4C- 6D
12	330	4000	8,4	1,2	9,9	19	AZ 7-4C-12D
24	1200	7000	16,8	2,4	20,1	36	AZ7-4C-24D
48	4200	12500	33,6	4,8	40,8	67	AZ7-4C-48D
Sealed model							
Rated voltage V DC	Resistance ± 10 %	No. of turns	Pick-up voltage	Drop-out voltage	Operating voltage at 40 °C V DC		Order number
	at 20 °C		at 20 °C	at 20 °C			
	Ω		VDC	VDC	min.	max.	
5	53	1500	4,0	0,5	4,8	7,5	AZ7-4C- 5DE
6	90	2000	4,8	0,6	5,8	10	AZ7-4C- 6DE
12	330	4000	9,6	1,2	11,4	19	AZ7-4C-12DE
24	1200	7000	19,2	2,4	23	36	AZ7-4C-24DE
48	4200	12500	38,4	4,8	46,5	67	AZ7-4C-48DE