LAUBE TECHNOLOGY
MERCURY WETTED REED RELAYS

CONTACT FORM	CURRENT	PART SERIES	PAGE #'S
(1A) SPST-NO	3 AMP	F81A.500	164~165 (Link)
(1C) SPDT	5 AMP	R0861P12	166~167 (Link)
(2-1C) 2-SPDT	3 AMP	F72C.500	168~169 (Link)

REED RELAY / MERCURY CONTACT

F81A . 500

For printed circuit board

One normally open mercury contact

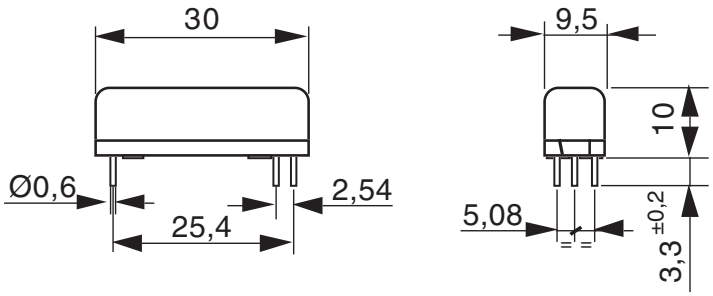
In metal cover

Vertical operating position *± 30°*

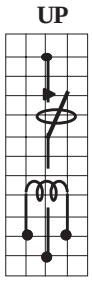
Main characteristics

Maximum switching voltage	**500 VDC (or peak)**
Maximum switching current	**1A**
Nominal current	**3 A**
Contact rating	**50 VA**
Contact material	**Mercury**

REF.	Marking
F81A2500	F81A2500
F81A5500	F81A5500
F81A7500	F81A7500



Dimensions in mm



Wiring : top view step 2,54 mm

Control data

REF. F81A	2 500	5 500	7 500
Maximum voltage (V)	7,5	18	36
Nominal voltage (V)	5	12	24
Operate voltage to secure the function from -40 to + 85 ℃ (V)	3,5	8,4	16,8
Release voltage (V)	0,4	1	2
Power dissipated on the coil at 20 ℃ (mW)	180	144	250

Electrical data

Initial contact resistance **(100 mA/ 12 VAC)** **≤ 100 mΩ**

-coil resistance at 20 ℃	**F81A**	**2 500**	**5 500**	**7 500**
-variation 10 % each 25 ℃		**140Ω**	**1000Ω**	**2300Ω**

Hold-on voltage

- across contacts	**1000 Vac**
- between coil and contacts	**2000 Vac**
- between case and contacts	**1000 Vac**
- between case and coil	**1000 Vac**

Insulation resistance

- across contacts	**10^8 Ω**
- between coil and contacts	**10^{10} Ω**
- between case and contacts	**10^{10} Ω**
- between case and coil	**10^9 Ω**

Max switching time

Test process ---> Coil voltage: nominal voltage

Max. operate time	**normally open**	**3 ms**
Max. release time	**normally closed**	**3 ms**

Electrical life time **consult us**

Mechanical life expectancy **>1. 10^9 op**

Physical data

Operating temperature	**- 40 ~ + 85 °C**
Storage temperature	**- 40 ~ + 100 °C**
Weight	**4,6 gr. max.**
Shocks (11ms)	**30 g**
Vibrations (10 to 500 Hz)	**10 g**

REED RELAY / 1 CHANGE OVER MERCURY CONTACT

R0861 P12
R076 . P00

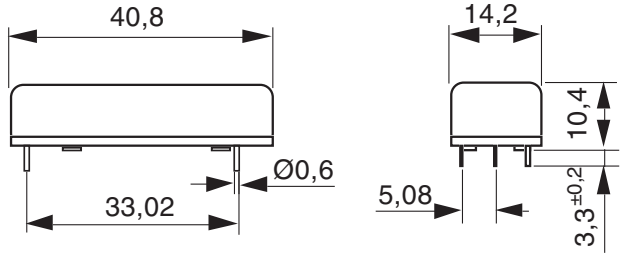
For printed circuit board

1 change over mercury contact
In metal cover
Vertical operating position *± 30°*

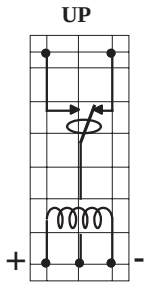
Main characteristics

Maximum switching voltage	**500 VDC (or peak)**
Maximum switching current	**2A**
Nominal current	**5 A max**
Contact rating	**100 VA**
Contact material	**Mercury**

REF.	Marking	N°RCM
R0861P12	133 R05 861 RCM	019
R0760P00	133 R12 760	/
R0761P00	133 R24 761	/



Dimensions in mm



Wiring : top view step 5,08 mm

Control data

REF.	R0861	R0760	R0761
Maximum voltage (V)	10	18	30
Nominal voltage (V)	5	12	24
Operate voltage to secure the function from -40 to + 85 °C (V)	2,8	5,7	13
Release voltage (V)	0,4	1	2
Power dissipated on the coil at 20 °C (mW)	75	215	215

Electrical data

Initial contact resistance **(100 mA/ 12 VAC) ≤ 30 mΩ**

	REF.	R0861	R0760	R0761
-coil resistance at 20 ℃				
-variation 10 % each 25 ℃		335Ω	680Ω	2650Ω

Hold-on voltage

- across contacts	1000 Vac
- between coil and contacts	1000 Vac
- between case and contacts	1000 Vac
- between case and coil	1000 Vac

Insulation resistance

- across contacts	10^8 Ω
- between coil and contacts	10^8 Ω
- between case and contacts	10^8 Ω
- between case and coil	10^8 Ω

Max switching time

Test process ---> Coil voltage: nominal voltage

Max. operate time	normally open	4 ms
Max. release time	normally closed	4 ms

Electrical life time **consult us**

Mechanical life expectancy **>1. 10^9 op**

Physical data

Operating temperature	- 25 ~ + 70 °C
Storage temperature	- 40 ~ + 100 °C
Weight	14 gr. max.
Shocks (11ms)	30 g
Vibrations (10 to 500 Hz)	10 g

REED RELAY / 2 CHANGE OVER MERCURY CONTACTS

For printed circuit board

F72C . 500

2 change over mercury contacts

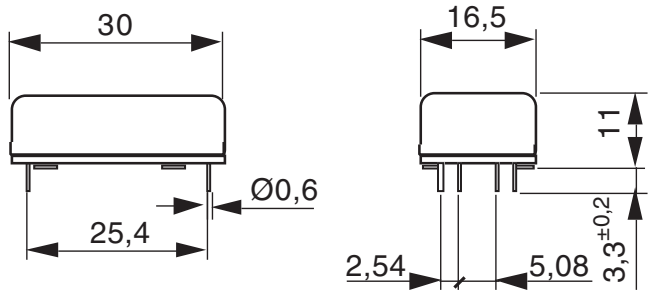
In metal cover

Vertical operating position ***± 30°***

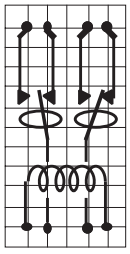
Main characteristics

Maximum switching voltage	**500 VDC (or peak)**
Maximum switching current	**1A**
Nominal current	**3 A**
Contact rating	**50 VA**
Contact material	**Mercury**

REF.	Marking
F72C2500	F72C2500
F72C5500	F72C5500
F72C7500	F72C7500



Dimensions in mm



Wiring : top view step 2,54 mm

Control data

REF. F72C	2 500	5 500	7 500
Maximum voltage (V)	6	14	26
Nominal voltage (V)	5	12	24
Operate voltage to secure the function from -40 to + 85 °C (V)	3,75	9	18
Release voltage (V)	0,4	1	2
Power dissipated on the coil at 20 °C (mW)	333	411	426

Electrical data

Initial contact resistance **(100 mA/ 12 VAC) ≤ 150 mΩ**

-coil resistance at 20 ℃
-variation 10 % each 25 ℃

F72C	2 500	5 500	7 500
	75Ω	350Ω	1350Ω

Hold-on voltage

- across contacts	**1000 Vac**
- between coil and contacts	**1000 Vac**
- between case and contacts	**1000 Vac**
- between case and coil	**1000 Vac**

Insulation resistance

- across contacts	**10^8 Ω**
- between coil and contacts	**10^{10} Ω**
- between case and contacts	**10^{10} Ω**
- between case and coil	**10^{10} Ω**

Max switching time

Test process---> Coil voltage:nominal voltage

max. operate time	**normally open**	**3 ms**
max. release time	**normally closed**	**3 ms**

Electrical life time **consult us**

Mechanical life expectancy **>1. 10^9 op**

Physical data

Operating temperature	**- 25 ~ + 70 °C**
Storage temperature	**- 40 ~ + 100 °C**
Weight	**9 gr. max.**
Shocks (11ms)	**30 g**
Vibrations (10 to 500 Hz)	**10 g**