



## GUIDELINES FOR THE USE OF DMG CONTACT BLOCKS

DMG pushbuttons are equipped with different types of contact blocks and micro-switches:

Type	Connectors	Contacts	BL Light	BD Dual Light	BP Panzer	BS Sherman	BR Rock	BW Indicators
<b>P7</b> 		SS5	✓					
		SS5	✓					
		X						✓
	<b>JST</b> 	SS5	✓					
		SS5	✓					
		X						✓
<b>P8</b> 		D2F	✓	✓	✓	✓	✓	
		D2F	✓	✓	✓	✓	✓	
		Burgess F5T8	✓		✓	✓	✓	
<b>P9</b> 	<b>JST</b> 	D2F	✓		✓	✓	✓	
		TACT	✓		✓	✓	✓	

The choice of the type of contact block / micro-switch is subject to the electrical features of the controller of the installation. The following guidelines will help understanding the limits of use of each type of micro-switch.



### Tact Switch Omron B3F400

**Contact block:** P9 (JST connectors)

**No. of contacts:** 1 Normally Open

**Contacts electrical features:** 24V DC, 50mA (resistive load)

**Mechanical durability:** 1,5 millions activations

**Electrical durability (24V DC, 50mA):** 3 millions activations

**Suggested use:** we recommend to use the tact switch for Call/Service pushbuttons on installation featuring electronic controller only as it is not suitable for relay controllers, relay door operators, electromagnetic alarm bells, inductive loads in general. **DMG recommends to use the B3F400 tact switch within the following electrical operation range:**

<b>Recommended Operation Range</b> (resistive load)	
$V_{max}$	24V DC
$I_{max}$	50mA
$I_{min}$	1mA



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### Micro Switch Omron D2F7

**Contact block:** P8 (wire terminals) or P9 (JST connectors)

**No. of contacts:** P8: 1C (NC/NO) o 2C (1 NC/NO+1NO) • P9: 1C (NO) o 2C (1 NC/NO+1NO)

**Contacts electrical features:** 125V AC, 3A ; 24V DC, 2A (resistive load)

**Mechanical durability:** 1,5 millions activations

**Electrical durability (24V DC, 50mA):** 1,5 millions activations

**Suggested use:** we recommend to use the D2F7 micro-switch for Call/Service pushbuttons on installation featuring electronic controller or low-voltage relay controllers (24V AC/DC). This micro-switch is not suitable for relay controllers with higher voltage and/or in presence of inductive loads. **DMG recommends to use the D2F7 micro-switch within the following electrical operation range:**

<b>Recommended Operation Range (resistive load)</b>	
Vmax	24V AC/DC
I <sub>max</sub>	1A
I <sub>min</sub>	20mA



### Micro Switch Omron SS5

**Contact block:** P7 (wire terminals or JST connectors)

**No. of contacts:** 1C (NC/NO) or 2C (1 NC/NO+1NO)

**Contacts electrical features:**

Resistive Load	250V AC	3A
	30V DC	4A
	125V AC	5A
	125V DC	0,4A
Inductive Load	125V AC	3A
	125V DC	0,4A

**Mechanical durability:** 1,5 millions activations

**Electrical durability (24V DC, 50mA):** 3 millions activations

**Suggested use:** This type of micro-switch is suitable for Call/Service pushbuttons on all types of installations, also in presence of inductive loads. **However, DMG recommends to use the SS5 micro-switch within the following electrical operation range:**

<b>Recommended Operation Range (resistive load)</b>	
Vmax	125V AC/DC
I <sub>max</sub>	1A (0,4A for DC)
I <sub>min</sub>	20mA



## GUIDELINES FOR THE USE OF DMG CONTACT BLOCKS



**Micro Switch Burgess F5T8**

**Contact block:** P8 (wire terminals)

**No. of contacts:** 1C (NC/NO) or 2C (1 NC/NO+1NO)

**Contacts electrical features:**

Resistive Load	250V AC	5A
	250V DC	0,25A
	125V AC	5A
	125V DC	0,5A
	30V AC	5A
	30V DC	5A
Inductive Load	125V AC	5A
	125V DC	0,06A
	30V AC	5A
	30V DC	5A

**Mechanical durability:** 1,5 millions activations

**Electrical durability (24V DC, 50mA):** 3 millions activations

**Suggested use:** This type of micro-switch is suitable for Call/Service pushbuttons on all types of installations, also in presence of inductive loads. **However, DMG recommends to use the Burgess F5T8 micro-switch within the following electrical operation range:**

<b>Recommended Operation Range (resistive load)</b>	
$V_{max}$	125V AC/DC
$I_{max}$	1A (0,5A for DC)
$I_{min}$	20mA