OMICRON
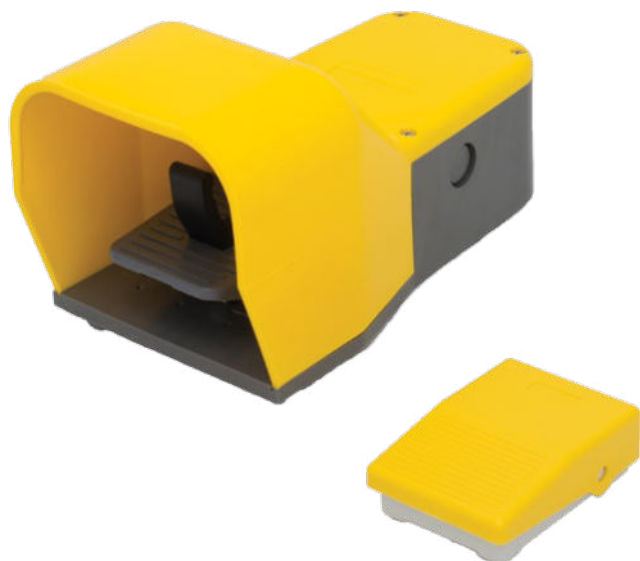## Footswitch

Footswitch for auxiliary control of machinery such as shearing, bending, wrapping machines, riveters and machine tools.

FEATURES

- Positive opening NC contacts for safety functions (not available for mini-footswitch configurations).
- Mechanical life of switches: up to max. 30 million operations.
- IP protection degree: Omicron is classified IP 40 (mini-footswitch) or IP 65 (footswitch with cover).
- Extreme temperature resistance: from -25°C to +70°C.
- Salt mist resistant (footswitch with cover).
- Base, cover and pedal made of shock resistant ABS material or of self-extinguishing polycarbonate/ABS-V0, or cover made of die-cast aluminum and base and pedal made of self-extinguishing polycarbonate/ABS-V0.
- Materials and components used are shock and wear resistant.

OPTIONS

- Available in different configurations featuring various operation modes, cover colour (grey, yellow or red) and switches.
- Available with mushroom pushbutton (on request).
- Available in five different lever operation modes: with free movement, with lever moving afetr unlocking the safety device, with latching device to maintain the lever in lowered position, with free movement and two-stage actuating force, with lever moving after unlocking the safety device and two-stage actuating force.
- Single or double footswitches and mini-footswitches available.
- 1 or 2 slow or snap action switches with 1NO+1NC contacts.

CERTIFICATIONS

- CE marking.

Fill in the "request form" for accurate product configuration.

POSSIBLE ASSEMBLIES

Omicron footswitch with red aluminum cover

Omicron mini-footswitch with grey cover

CERTIFICATIONS

Conformity to CE Standards	EN 60947-1 Low-voltage switchgear and controlgear
	EN 60947-5-1 Low-voltage switchgear and controlgear - Control circuit devices and switching elements - Electromechanical control circuit devices
	EN 60529 Degrees of protection provided by enclosures
	IEC 61058-1 Switches for appliances - Part 1: General requirements (for mini-footswitch)
	IEC 60068-2-78 Environmental Testing - Part 2-78: Tests - Test Cab: Damp heat, steady state (for footswitch with cover)
	IEC 60068-2-11 Environmental Testing - Part 2: Tests - Test Ka: Salt Mist (for footswitch with cover)
	IEC 60068-2-27 Environmental Testing - Part 2: Tests - Test Ea & guidance: Shock (for footswitch with cover)
Markings and homologations	Mini-footswitch $C\epsilon$
	Footswitch with cover $C\epsilon$

GENERAL TECHNICAL SPECIFICATIONS

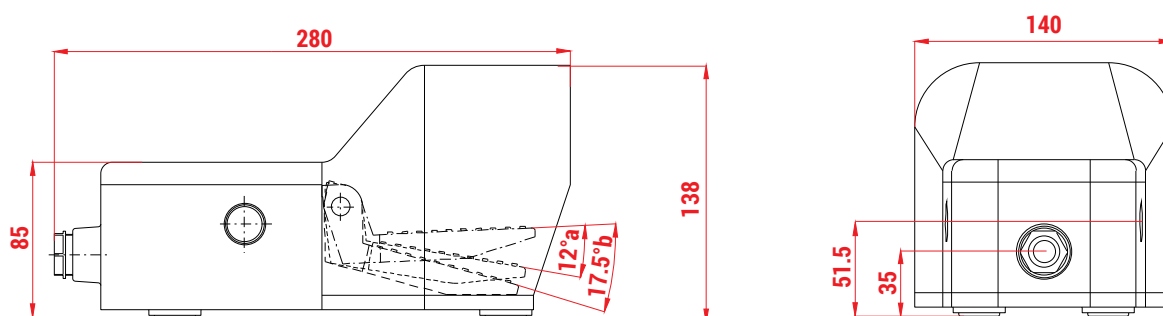| Footswitch	Mini-footswitch	Footswitch with cover
Ambient temperature	Storage -30°C/+80°C	
	Operational -25°C/+70°C	
Climatic resistance	-	Salt mist
Shock resistance	-	50g (1/2 sinusoidal shock for 11 ms) no change in contact position
IP protection degree	IP 40	IP 65
Operating torque	1.2 Nm	0.25 Nm
Operating angle	from 2° to 4°	15°
Cable entry	Cable gland Ø 6, 8.5 max.	Cable gland M20

ELECTRICAL SPECIFICATIONS

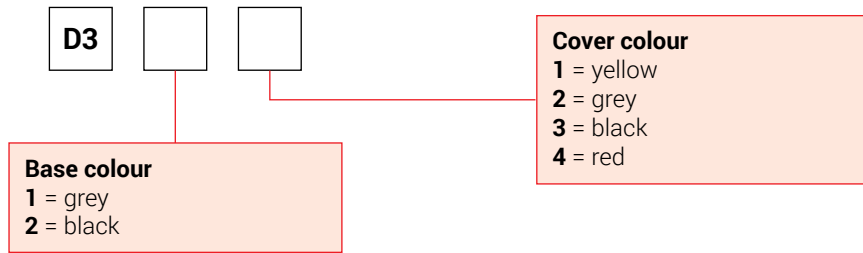| Footswitch	Mini-footswitch	Footswitch with cover
Utilisation category	-	AC15 - DC13
Rated operational current	3 A / 250 Vac	A600 (according to UL508 and CSA C22-2 n.14)
	0.06 A / 230 Vdc	Q600 (according to UL508 and CSA C22-2 n.14)
	-	10 A / 24 Vac / AC15
	-	6 A / 240 Vac / AC15
	-	4 A / 400 Vac / AC15
	-	6 A / 24 Vdc / DC13
	-	0.55 A / 125 Vdc / DC13
	-	0.4 A / 250 Vdc / DC13
Rated insulation voltage	250 V	690 V degree of pollution 3
Rated impulse voltage	1 kV	6 kV
Conventional free air thermal current $\theta < 40°C$	15 A	10 A
Short-circuit protection $U_e < 500$ Vac - fuse type gG (gl)	10 A	10 A
Contact resistance	30 mΩ	25 mΩ
Mechanical life	10×10^6 operations	30×10^6 operations
Connections	Screws M3 x 0.5 (Philips head no. 1 and washer)	Screws with cable clamp M3.5 (+,-) pozidriv 2
Wires	-	1 or 2 x 0.75 ... 2.5 mm^2
Switch type	Change-over	Snap action
	-	Slow action
Contacts	1NO / 1NC	1NO+1NC (All NC contacts are of the positive opening operation type ⊖→)
Scheme		

OVERALL DIMENSIONS (mm)

Omicron mini-footswitch
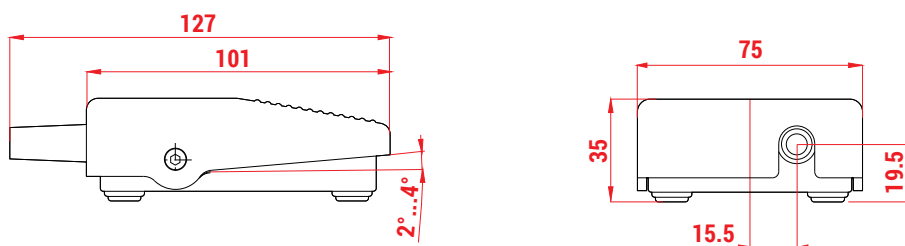
Omicron footswitch with cover

OMICRON - REQUEST FORM FOR FOOTSWITCH

Omicron mini-footswitch

| D3 | | |

Cover colour
1 = yellow
2 = grey
3 = black
4 = red

Base colour
1 = grey
2 = black

Instructions

Fill in the boxes with the numbers/letters corresponding to the specifications required, thus obtaining the footswitch code, as shown in the example below.

| D3 | 2 | 1 |

Omicron footswitch with cover

| D | | 2 | | | | |

Footswitch
1 = simple
2 = double

Devices
1 = **free movement of the lever:** there is no particular device preventing the lever from being operated freely.
2 = **lever moving after unlocking the safety device:** the pedal lever can be operated only after disactivating the mechanical safety device by fully inserting the foot, thus preventing any accidental operation.
3 = **latching device to maintain the lever in lowered position:** when lowering the lever the contacts switch and the lever remains locked, thus keeping the contacts activated.
4 = **free movement of the lever with two-stage actuating force:** when applying a light pressure on the lever, the first contact is activated,while the second one remains disactivated. A greater pressure on the lever will switch also the second contact.
5 = **lever moving after unlocking the safety device with two-stage actuating force:** same as above, but the lever can be actuated only by completely inserting the foot into the pedal, thus disactivating the mechanical safety device.

Cover material
- = Shock resistant ABS (standard)
V0 = Self-extinguishing polycarbonate/ABS
V0-M = Self-extinguishing polycarbonate/ABS base and aluminum cover

Switches
1 = 1 NO+NC snap action switch
2 = 1 NO+NC slow action switch
3 = 2 NO+NC snap action switches
4 = 2 NO+NC slow action switches

Cover colour
1 = yellow
2 = grey
3 = yellow + grey (double footswitch)
4 = red
5 = red half cover (not available in aluminum)
7 = yellow half cover (not available in aluminum)
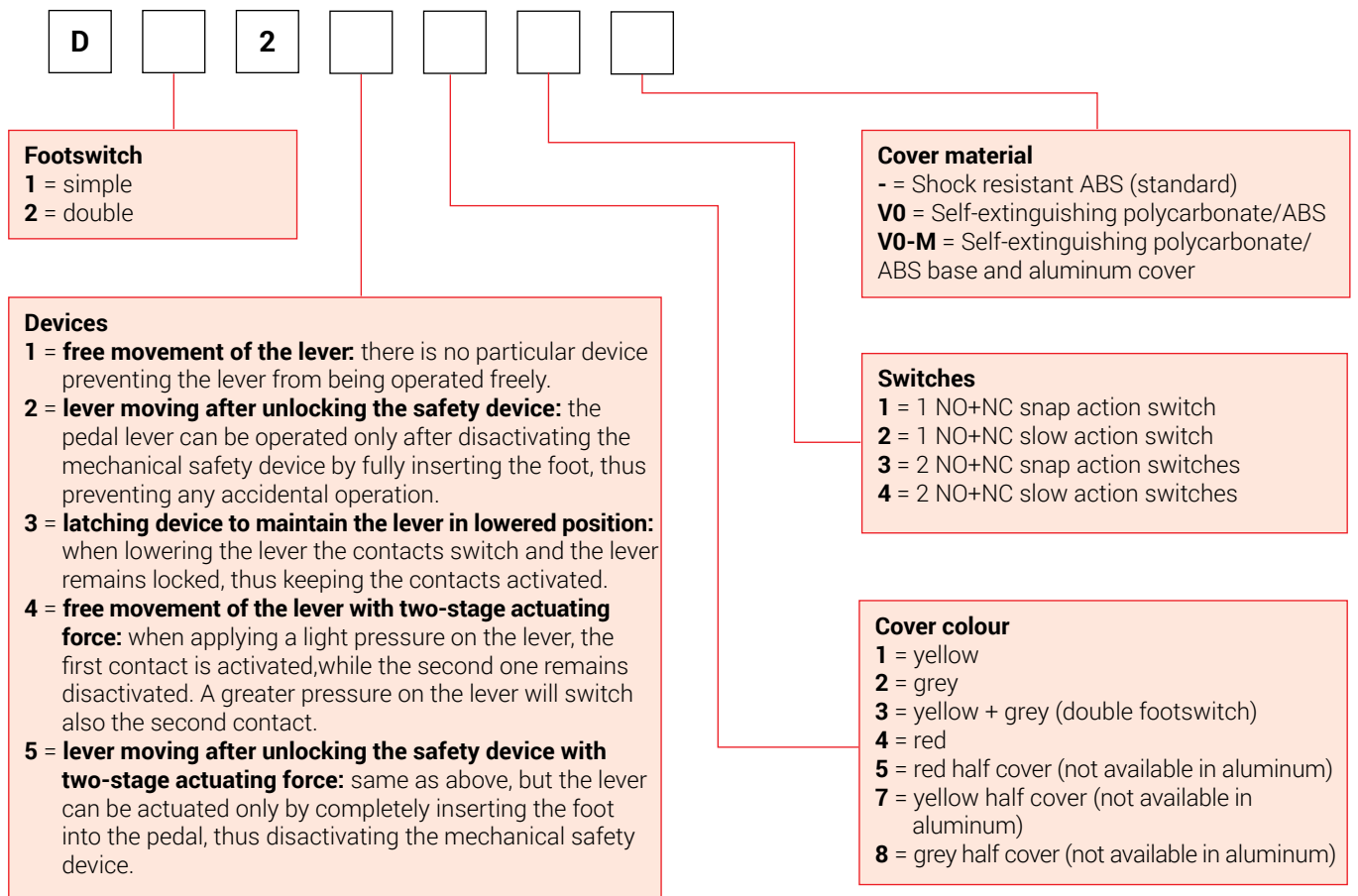**8** = grey half cover (not available in aluminum)

Instructions

Fill in the boxes with the numbers/letters corresponding to the specifications required, thus obtaining the footswitch code, as shown in the example below.

| D | 1 | 2 | 2 | 4 | 1 | V0 |