

LADY Pendant station – General Features

The new LADY series single-row push-button stations for auxiliary circuits are the result of a blend of a long experience in the field, detailed studies in ergonomics, and the use of innovative, modern design and materials, in compliance with the best technology available today. In designing the product particular attention was paid both to easy handling features and to the technical aspects, in order to ensure usage also in heavy-duty circumstances. All the materials, which come into direct contact with the environment, are resistant to atmospheric agents, oils, temperature changes and are shockproof. The rubber gaskets ensure optimal protection against dust and liquids. The optimised internal space allows to make all connections easily and quickly. Bridge connections have been projected in order to reduce cabling time and are available upon request. LADY push-button station is offered in 6 different sizes, ranging from 2 to 12 buttons devices and various controls and switches can be mounted on each type. LAP versions for bridge cranes and hoists and LAE for building cranes are available. The emergency stop push-button has been designed in according to EN 418 regulations. The NC contacts feature guaranteed opening (EN 60947-5-1) and can be supplied also in the 2NC increased safety version. All buttons are marked with international symbols. The switches have self-cleaning sliding contacts in silver alloy.



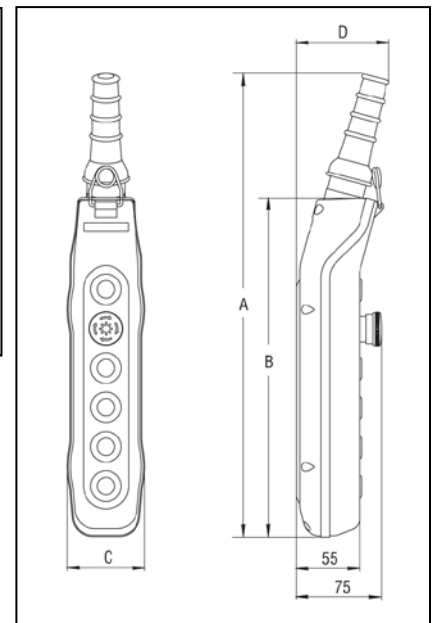
- **Insulation Voltage** 660 V ~
- **Test Voltage** 2500 V ~
- **Maximum operating Voltage** 400 V ~
- **Operating temperature** - 25°C + 70°C
- **Storage temperature** - 40°C + 70°C
- **Electrical Insulation** Classified II (Double Insulation)
- **Degree of protection** IP 65
- **Operating positions:** all positions
- **Cable entry** 2-4 pushbuttons: rubber sleeve D.12-17 mm / 6-12 pushbuttons: rubber sleeve D.15-20 mm
- **Approvals** CE
- **Compliance with EEC Directives** 2006/95 CE 93/68 CE 98/37 CE 2004/108 CE
- **Compliance with rules** EN60947-1 EN60947-5-1 EN60529 EN 60204-1 EN60204-32 EB418

Dimensions



LADY					
No.Puls.	Dimensions				Weight
	A	B	C	D	
2	264	166	66	77	0,280
4	336	238	66	77	0,430
6	424	310	71	82	0,590
8	496	382	71	82	0,750
10	568	454	71	82	0,880
12	640	526	71	82	1,040

The LAE items have bottom entry cable, while LAP items have top entry cable.



For Your Safety

Single-row LADY series pendant stations comply with the current safety rules, and in particular:

- 98/37 CE Machine Directive
- 2006/95 CE Low Voltage Directive
- 93/68 CEE Low voltage Directive
- 2004/108 CE EMC Directive
- EN 60204-32 Hoisting Machinery Safety Regulations
- EN 60947-1 Low-voltage switchgear and controlgear
- EN 60947-5-1 Control circuits devices and switching elements

Single-row LADY series pendant stations are guaranteed by our EC Certificate of Conformity, available upon request, in which it is declared that such product was created in accordance to defined and recognised Safety Regulations.

Internal PUSHBUTTON Element

MK pushbutton element

GENERAL FEATURES:

The button element MK is part of the LADY Pendant Station.

The body is made of nylon-glass self-extinguishing, the contacts are silver, creeping and self-cleaning, and the screws and springs are stainless steel.

Protection against accidental contact finger proof.

MK elements are supplied as spare parts on the panels.

TECHNICAL FEATURES:

Compliance with standards EN 60947-5-1

Electrical Insulation 660 V ~

Current 10 A

Mechanical life 3×10^6 movements

Cable section max connexionable 2x1,5 mmq o 1x2,5 mmq

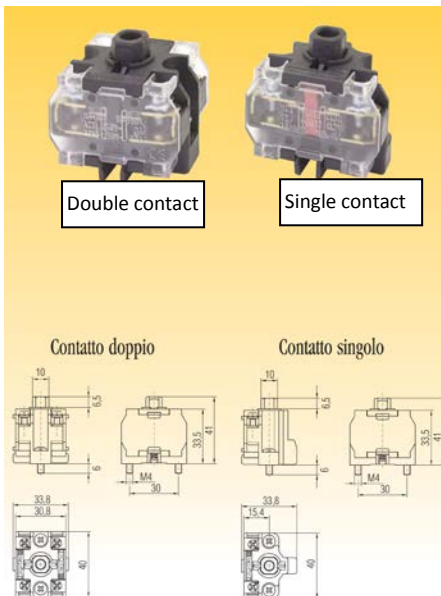
Terminal by screw unmissable clamp

Operating limits	AC15	Ve (V)	24	48	120	240	400
			Ie (A)	10	10	6	3
DC13	Ve (V)	24	48	125	250		
		Ie (A)	5	5	2,2	1,1	

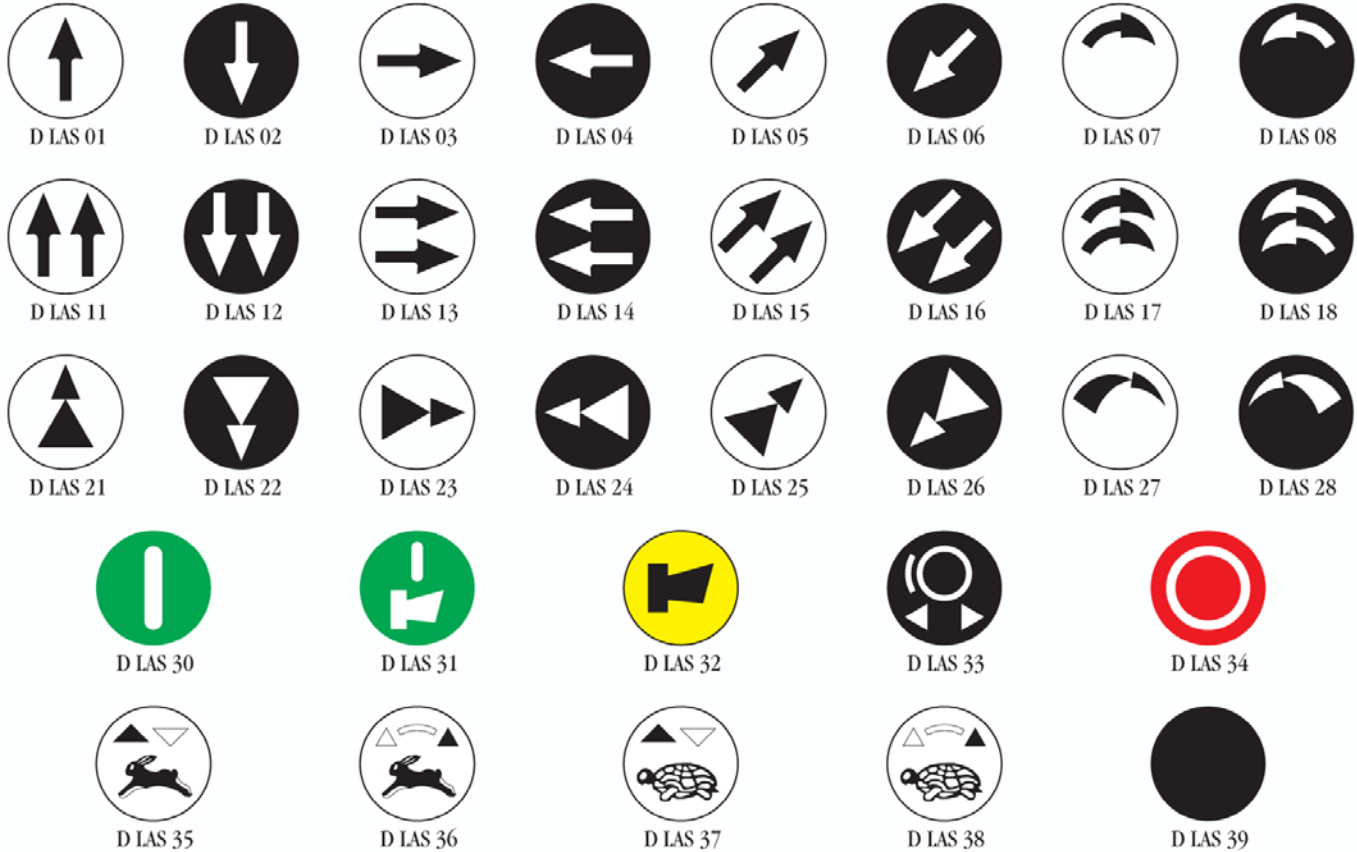
Approvals CE

MODELS and ITEMS:

1NC	cod.	D MK01
1NA	cod.	D MK10
2NC contemp.	cod.	D MK02
2NA contemp.	cod.	D MK20CC
1NA+NC	cod.	D MK11
2NA progr.	cod.	D MK20PR



Standard Symbol



INSTALLATION AND MAINTENANCE INSTRUCTIONS

INSTALLATION

The push-button stations must be installed by a qualified staff, according to safety law in force (see page 3). Electrical current must be switched off before to effecting the connection. Internal cabling must be carried out in strict compliance with the electrical drawings of the controlled machine. After installing, a test of the emergency stop as well as all other buttons operated by the pendant station, must be executed. Avoid prolonged use of oils and acidic substances during usage, as they may cause damage to the pendant station.

CABLING

Cabling should be carried out as follows: • remove cover (2) and loosen screws • remove wire clamp by loosening the screws holding it in place • assess diameter of available cable and cut rubber sleeve (3) so that, once the cable has been inserted, the device will be perfectly water- and dust-proof. • tighten wire clamp, ensuring that cable is securely fixed • carry out cabling procedure • close pendant station paying attention to correct positioning of rubber gaskets.

INSERTION OF LABELLING

Labelling of the individual buttons may be replaced when cabling has been completed.

MAINTENANCE

In order to ensure perfect working of equipment over time, a programmed periodic maintenance is advised. All operations must be done by authorised staff and the exclusive use of original spare parts is to be considered mandatory. Any part showing signs of wear or defects should be replaced even without delay, in order to ensure maximum safety of operation at all times. In particular, it is necessary to: • clean push-button station periodically, using non-aggressive products and compressed air on external parts and compressed air only on internal parts • check that all screws on pack are tightened • check internal cabling and that connecting terminals are tightly closed • check that all gaskets and rubber parts are in good working order • check that casing is in good condition • check correct working of the equipment by carrying out a series of test manoeuvres
Any alteration of the parts of the push-button station will make the manufacturer's guarantee decline.

STANDARD Executions

Standard Executions

The types of push button pendant stations shown here are standard versions designed for use on the best-known bridge cranes, hoists and building cranes in the world. A mechanical interlock for opposite movements is mounted as standard. Thanks to the versatility of assembly, personalised executions are available upon request.

Switching elements on standard versions		
Type of Control	Switching element	Item
On	1NO	DMK10
Allarm	1NO	DMK10
Start/Allarm	2NO simultaneous	DMK20CC
Emergency Stop	1NC	DMK01
1 speed movement	1NO	DMK10
2 speeds movements	2NO Progressive	DMK20PR



L AP 2A



L AP 2B



L AP 3A



L AP 4A



L AP 4B



L AP 6A



L AP 6B



L AP 8A



L AP 8B



L AP 8C



L A P 8D



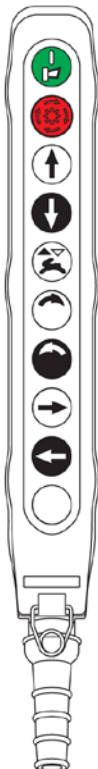
L A P 10A



L A P 10B



L A P 12A



L A E 9A



L A E 10A



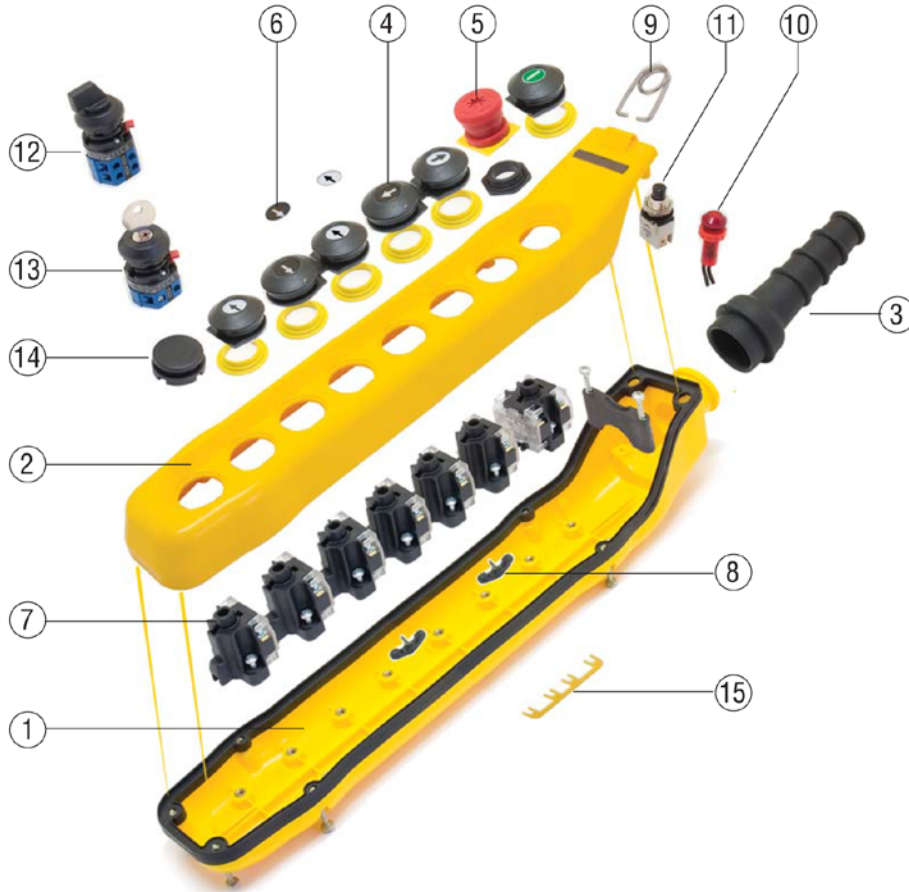
L A E 10B

A richiesta
Componi la tua Pulsantiera

Tipo tasto	Tipo elemento pulsante
<input type="checkbox"/>	Manicotto
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>



Accessories and Spare Parts



Pos. Code	Description
Spare parts	
1	<i>D LA02FON</i> Bottom for 2 buttons station <i>D LA04FON</i> Bottom for 4 buttons station <i>D LA06FON</i> Bottom for 6 buttons station <i>D LA08FON</i> Bottom for 8 buttons station <i>D LA10FON</i> Bottom for 10 buttons station <i>D LA12FON</i> Bottom for 12 buttons station with rubber gasket string wire clamp screws
2	<i>D LA02COP</i> Cover for 2 buttons station <i>D LA04COP</i> Cover for 4 buttons station <i>D LA06COP</i> Cover for 6 buttons station <i>D LA08COP</i> Cover for 8 buttons station <i>D LA10COP</i> Cover for 10 buttons station <i>D LA12COP</i> Cover for 12 buttons station
3	<i>D LAMC</i> 2-4 buttons pendant station rubber sleeve <i>D LAML</i> 6-12 buttons pendant station rubber sleeve
4	<i>D LAGUA2</i> Rubber gasket for 2 push-buttons with ring
5	<i>D LAEM</i> Mushroom head emergency stop button (without push-button element)
6	<i>D LASXX</i> Buttons with international symbols

Pos. Code	Description
Spare Parts	
7	<i>D MK10</i> 1NO push-button element <i>D MK01</i> 1NC push-button element <i>D MK11</i> 1NO + 1NC push-button element <i>D MK20CC</i> 2NO push-button element (simultaneous) <i>D MK20PR</i> 2NO push-button element (progressive) <i>D MK02CC</i> 2NC push-button element (simultaneous)
8	<i>D PKBLMEC</i> Mechanical interlock
9	<i>D LAGAN</i> Suspension hanger
Fittings	
10	<i>D LAPL</i> Pilot lamp
11	<i>D LABZ</i> 1NO push-button
12	<i>D LALS</i> Lever selector 0-1 <i>D LALS3</i> Lever selector 0-1-2
13	<i>D LAKS</i> Key selector 0-1 <i>D LAKS3</i> Key selector 0-1-2
14	<i>D LACL</i> Closure element with rubber gasket
15	<i>D LACC2SQ</i> 2 pins bridge connection 90° <i>D LACC4</i> 4 pins bridge connection 90°