

Overall dimensions
Diagram for drill the openings



Buttons and LED indicators

5 YEAR WARRANTY *for industrial usage, 3 years warranty

These are devices used in control and indication systems, command boards and panels in industrial automation systems. They are manufactured to commutate controlling circuits and to control the switching on or off executive mechanisms such as relays, contactors, etc. The signal lamps and indicators find broad application in all industrial fields. The devices endure short time current overload up to 10A, and normally they can commutate thermal current up to 6A in their contact system. The connection to the contact terminals is through screw terminals to which operational conductors with section up to 2.5mm² can be joined.

Documentation corresponding to the product:

- Standard: EN 60947-1; EN 60947-5-1

Technical data:

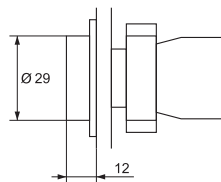
- Insulation voltage: 660V; 50/60Hz

- Impulse voltage wear resistance: 6000V;
- Rated current: 6A (230V AC); 0.3A (230V DC)
- Short circuit protection: safety device 10A gG outside in the circuit
- Mechanical wear resistance: 1x10⁶ commutation cycles
- Power of mechanical compression:
 - at closing: 20N
 - at opening: 8N
- Operating temperature: -20 - +65°C
- Humidity: 35 – 85%RH
- Tightening moment of the joining conductors: 0.15Nm
- Section of the conductor: 1x0.5; 1x0.75; 1x1; 1x1.5; 1x2.5mm²

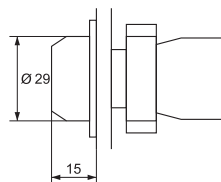
Mounting:

- to a flat metal or plastic surface with thickness: max 4mm
- opening with size: Ø 22.5mm

Type	Description	Type of contacts	Rated current (A) at 400V	Colour	Packing / Box (pcs)	Catalogue number
EL 2- BA 21	Button round with spring reverse	NO	6	black	20 / 300	401021
EL 2- BA 31		NO	6	green	20 / 300	401031
EL 2- BA 51		NO	6	yellow	20 / 300	401051
EL 2- BA 61		NO	6	blue	20 / 300	401061
EL 2- BA 42		NC	6	red	20 / 300	401042



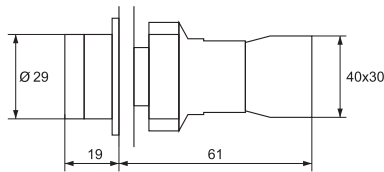
Type	Description	Type of contacts	Rated current (A) at 400V	Colour	Note	Packing / Box (pcs)	Catalogue number
EL 2- BP 31	Button round with spring reverse	NO	6	green	IP=65 Provided from silicon lid	20 / 300	401032
EL 2- BP 42		NC	6	red	IP=65 Provided from silicon lid	20 / 300	401043



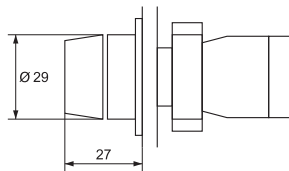
Buttons and LED indicators



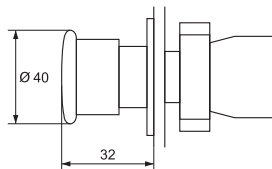
Type	Description	Type of contacts	Rated current (A) at 400V	Colour	Packing / Box (pcs)	Catalogue number
EL 2- BW3471	Button round with spring reverse and LED indicator	24V	6	red	20 / 200	401474
EL 2- BW3371		24V	6	green	20 / 200	401374
EL 2- BW3571		24V	6	yellow	20 / 200	401574
EL 2- BW3671		24V	6	blue	20 / 200	401674
EL 2- BW3471		110V	6	red	20 / 200	401473
EL 2- BW3371		110V	6	green	20 / 200	401373
EL 2- BW3571		110V	6	yellow	20 / 200	401573
EL 2- BW3671		110V	6	blue	20 / 200	401673
EL 2- BW3471		230V	6	red	20 / 200	401471
EL 2- BW3371		230V	6	green	20 / 200	401371
EL 2- BW3571		230V	6	yellow	20 / 200	401571
EL 2- BW3671		230V	6	blue	20 / 200	401671



Type	Description	Type of contacts	Rated current (A) at 400V	Colour	Note	Packing / Box (pcs)	Catalogue number
EL 2- BD 21	Switch with arrest	1NO	6	black	two-position	20 / 200	401421
EL 2- BD 33		2NO	6	black	three-position	20 / 200	401433



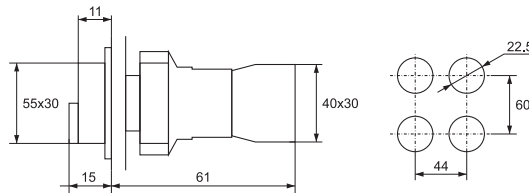
Type	Description	Type of contacts	Rated current (A) at 400V	Colour	Note	Packing / Box (pcs)	Catalogue number
EL 2- BC 42	Button with head "mushroom" type	1NC	6	red	spring reverse	15 / 150	401642



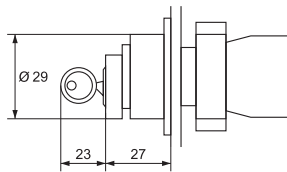
Type	Description	Type of contacts	Rated current (A) at 400V	Colour	Note	Packing / Box (pcs)	Catalogue number
EL 2- BS 545	Button with head "mushroom" type	1NC + 1NO	6	red	release with spinning	15 / 150	401545



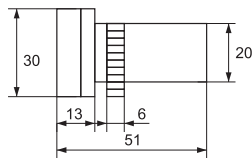
Type	Description	Type of contacts	Rated current (A) at 400V	Voltage (V)	Note	Packing / Box (pcs)	Catalogue number
EL 2- BW8475	Button double	1NO+1NC	6	24 AC	Green and red button + LED indicator	20 / 200	401844
EL 2-BW8475	Button double	1NO+1NC	6	230 AC	Green and red button+LED indicator	20/200	401845



Type	Description	Type of contacts	Rated current (A) at 400V	Note	Packing / Box (pcs)	Catalogue number
EL 2- BG 21	Change-over switch with switch	1NO	6	two-position with switch	20 / 200	401121



Type	Description	Rated current (A) at 400V	Colour	Packing / Box (pcs)	Catalogue number
AD56-22-W-230	LED indicators	230V AC	white	10 / 500	401123
AD56-22-W-110		110V AC	white	10 / 500	401111
AD56-22-W-24		24V AC/DC	white	10 / 500	401124
AD56-22-A-110		110V AC	amber	10 / 500	401211
AD56-22-A-24		24V AC/DC	amber	10 / 500	401224
AD56-22-A-230		230V AC	amber	10 / 500	401223
AD56-22-PG-230		230V AC	green	10 / 500	401323
AD56-22-PG-110		110V AC	green	10 / 500	401311
AD56-22-PG-24		24V AC/DC	green	10 / 500	401324
AD56-22-B-230		230V AC	blue	10 / 500	401523
AD56-22-B-110		110V AC	blue	10 / 500	401511
AD56-22-B-24		24V AC/DC	blue	10 / 500	401524
AD56-22-Y-230		230V AC	yellow	10 / 500	401723
AD56-22-Y-110		110V AC	yellow	10 / 500	401711
AD56-22-Y-24		24V AC/DC	yellow	10 / 500	401724
AD56-22-R-230		230V AC	red	10 / 500	401423
AD56-22-R-110	110V AC	red	10 / 500	401411	
AD56-22-R-24	24V AC/DC	red	10 / 500	401424	



Type	Description	Type of contacts	Colour	Packing / Box (pcs)	Catalogue number
EL02 - BE101	1	1 NO	green	100 / 1000	401001
EL02 - BE102	2	1 NC	red	100 / 1000	401002

Buttons and switches with box

3 YEAR WARRANTY



Type	Description	IP code:	Overall dimensions (mm)			Type of the contact	Colour	Packing / Box (pcs)	Catalogue number
			L	H	W				
EL1-B134	switching on 0-1	IP44	68	68	50	1 NO	black	1 / 100	401134



Type	Description	IP code:	Overall dimensions (mm)			Type of the contact	Colour	Packing / Box (pcs)	Catalogue number
			L	H	W				
EL1-B102	1 button with spring return	IP44	68	68	50	1 NO	green	1 / 100	401102
EL1-BP102	1 button with spring return	IP65	68	68	50	1 NO	green	1 / 100	401132



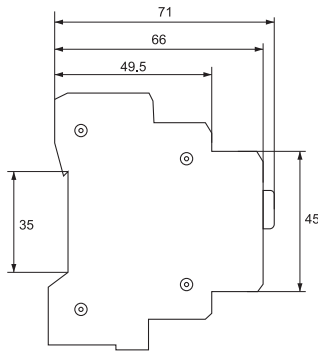
Type	Description	IP code:	Overall dimensions (mm)			Type of the contact	Colour	Packing / Box (pcs)	Catalogue number
			L	H	W				
EL1-B213	2 buttons with spring return	IP44	104	68	50	1 NC 1 NO	1 - red 1 - green	1 / 100	401213
EL1-BP213	2 buttons with spring return	IP65	104	68	50	1 NC 1 NO	1 - red 1 - green	1 / 100	401233



Type	Description	IP code:	Overall dimensions (mm)			Type of the contact	Colour	Packing / Box (pcs)	Catalogue number
			L	H	W				
EL1-B339	3 buttons with spring return	IP44	134	68	50	1 NO 1 NC 1 NO	1 - green 1 - red 1 - green	1 / 50	401339
EL1-BP339	3 buttons with spring return	IP65	134	68	50	1 NO 1 NC 1 NO	1 - green 1 - red 1 - green	1 / 50	401349



Type	Description	IP code:	Overall dimensions (mm)			Type of the contact	Colour	Packing / Box (pcs)	Catalogue number
			L	H	W				
EL1-B174	Emergency button with head "mushroom" type Ø40. Release through turning	IP44	68	68	50	1 NC	red	1 / 100	401174



Documents corresponding to the product:

Standard EN 60947-1
EN 60 947-5-1 t



Buttons and LED indicators

5 YEAR WARRANTY *for industrial usage, 3 years warranty

These are devices used in control and indication systems adjusted for mounting in command boards and panels directly on DIN-rail. They are manufactured to commute controlling circuits and to control the switching on or off executive mechanisms such as relays, contactors, etc. The signal lamps and indicators find broad application in all industrial fields. The devices endure short time current overload up to 20A, and normally they can commute current up to 10A with their contact system. The connection to the contact terminals is through screw terminals to which operational conductors with section up to 2.5mm² can be joined. There are also designed buttons combined with lamps.

Technical data:

- Insulation voltage: 660V; 50/60Hz
- Impulse voltage wear resistance: 6000V;
- Rated current: up to 10A (230V AC)

- Short circuit protection: safety device 10A gG outside in the circuit
 - Rated consumed current (for indicators and buttons combined with indicators): <20mA
 - wear resistance (indicators): >2000h
 - Mechanical wear resistance (buttons): 1x10⁶ commutation cycles
 - Power of mechanical compression:
 - at closing: 20N
 - at opening: 8N
 - Operating temperature: -20 - +65°C
 - Humidity: 35 – 85%RH
 - Tightening moment of the joining conductors: 0.15Nm
 - Section of the conductor: 1x0.5; 1x0.75; 1x1; 1x1.5; 1x2.5mm²
 - Plastic: UV rays wear resistance
- Mounting:**
- to a DIN-rail
 - Altitude: up to 2000m

Type	Description	Rated current (A) at 400V	Type of the contact	Colour	Packing / Box (pcs)	Catalogue number
ELB - BL - DIN	button	<10	2NO+ 1 NC	black	12 / 240	401505
ELB - BL - DIN	button	<10	1NO+ 2 NC	black	12 / 240	401506
ELB - G - DIN	button	<10	2NO+ 1 NC	green	12 / 240	401507
ELB - G -DIN	button	<10	1NO+ 2 NC	green	12 / 240	401508
ELB - Y - DIN	button	<10	2NO+ 1 NC	yellow	12 / 240	401509
ELB - Y - DIN	button	<10	1NO+ 2 NC	yellow	12 / 240	401510
ELB - R - DIN	button	<10	2NO+ 1 NC	red	12 / 240	401512
ELB - R - DIN	button	<10	1NO+ 2 NC	red	12 / 240	401513

Type	Description	Voltage (V)	Rated current (A) at 400V	Colour	Packing / Box (pcs)	Catalogue number
ELD - G - DIN	lamp	230V	<20	green	12 / 240	401500
ELD - R - DIN	lamp	230V	<20	red	12 / 240	401501
ELD - Y - DIN	lamp	230V	<20	yellow	12 / 240	401502
ELD - B - DIN	lamp	230V	<20	blue	12 / 240	401503
ELD - W - DIN	lamp	230V	<20	white	12 / 240	401504

Type	Description	Voltage (V)	Rated current (A) at 400V	Type of the contact	Colour	Packing / Box (pcs)	Catalogue number
ELBD - G - DIN	button + lamp	230V	<20	2NO+ 1 NC	green	12 / 240	401514
ELBD -G - DIN	button + lamp	230V	<20	1NO+ 2 NC	green	12 / 240	401515
ELBD - R - DIN	button + lamp	230V	<20	2NO+ 1 NC	red	12 / 240	401516
ELBD - R - DIN	button + lamp	230V	<20	1NO+ 2 NC	red	12 / 240	401517
ELBD - Y - DIN	button + lamp	230V	<20	2NO+ 1 NC	yellow	12 / 240	401518
ELBD - Y - DIN	button + lamp	230V	<20	1NO+ 2 NC	yellow	12 / 240	401519

Devices for telpher control MBP type

3 YEAR WARRANTY



They represent different combinations of START and STOP buttons mounted in plastic boxes in different sizes. They are connected to the operating circuits of cranes or telfhers and serve as a remote control of their movement. They are connected directly to the operating cable of the telpher and send commands directly to the executive mechanisms. They are designed to provide protection from dust and moisture IP65.

- Electrical wear resistance: 1x10⁵ cycles
 - Operating temperature: -10 +65°C
 - Humidity: 35 – 85% RH
 - Number of contacts: according to the number of the buttons
 - Commuting capacity: up to 6A
 - Plastic: UV rays wear resistance
 - IP code: IP65
 - Weight: according to the number of the contacts
- Mounting:**
- directly to the control cable of the telpher (crane)

Technical data:

- Supplying voltage: 230V; 50/60Hz

MBP-Axxxx — stop button type
 — button type – one-speed (x81) or two-speed (x91)
 — number of buttons



Type	Number of buttons	Contact block and scheme		Packing / Box (pcs)	Catalogue number
		Emergency	For the directions		
MBP-A281	2	-	NO+NC	1 / 20	46281
MBP-A291 two speed	2	-	NO+NC	1 / 20	46291
MBP-A2813	2+1	emergency button	NO+NC	1 / 20	46283
MBP-A2813K	2+1	emergency button with switch	NO+NC	1 / 20	46283K
MBP-A2913 two speed	2+1	emergency button	NO+NC	1 / 20	46294
MBP-A2913K two speed	2+1	emergency button with switch	NO+NC	1/20	46294K
MBP-A481	4	-	NO+NC	1 / 20	46481
MBP-A491 two speed	4	-	NO+NC	1 / 20	46491
MBP-A4813	4+1	emergency button	NO+NC	1 / 20	46483
MBP-A4813K	4+1	emergency button with switch	NO+NC	1 / 20	46483K
MBP-A4913 two speed	4+1	emergency button	NO+NC	1 / 20	46493
MBP-A4913K two speed	4+1	emergency button with switch	NO+NC	1/20	46493K
MBP-A681	6	-	NO+NC	1 / 20	46681
MBP-A691 two speed	6	-	NO+NC	1 / 20	46691
MBP-A6813	6+1	emergency button	NO+NC	1 / 20	46683
MBP-A6813K	6+1	emergency button with switch	NO+NC	1 / 20	46683K
MBP-A6913 two speed	6+1	emergency button	NO+NC	1 / 20	46693
MBP-A6913K two speed	6+1	emergency button with switch	NO+NC	1/20	46693K
MBP-A881	8	-	NO+NC	1 / 20	46881
MBP-A891 two speed	8	-	NO+NC	1 / 20	46891
MBP-A8813	8+1	emergency button	NO+NC	1 / 20	46883
MBP-A8813K	8+1	emergency button with switch	NO+NC	1 / 20	46883K
MBP-A8913 two speed	8+1	emergency button	NO+NC	1 / 20	46893
MBP-8913K two speed	8+1	emergency button with switch	NO+NC	1/20	46893K

Warning lights and towers

3 YEAR WARRANTY



The revolving warning lights and towers are devices intended for use as status indicators in the human-machine control systems. They are suitable for installation on control cabinets and panels or directly on machines. They are manufactured in different colour combinations to attract attention of operators working in a given production sector. Warning lights and towers are widely used in almost any industrial branch. They can be mounted on movable components or such, creating potential danger and can warn all workers for a critical situation with their blinking light and siren. These devices are electrically connected through cables, protruding out of the lamp casing.

Technical Specification:

- Rated voltage: 12 VAC/230VAC; 50/60 Hz;
- Isolation voltage: 660V; 50/60 Hz;
- Impulse voltage stability: 6000V
- Rated power: see the tables below
- Short circuit protection: 1A gG external fuse
- Operating Temperature: - 20°C + 65°C
- Humidity: 35 – 85% RH
- Plastic cover: UV resistant polycarbonate not considered as being harmful to human health

Installation:

- Warning lights are fixed to the respective machine body with the studs protruding from the light plastic casing.

Type	Description	Voltage (VAC)	Rated Power (W)	Colour	Packing / Box (pcs)	Catalogue number
LTE1101 - R	Warning light	12	10	Red	1 / 30	401525R
LTE1101 - G	Warning light	12	10	Green	1 / 30	401525G
LTE1101 - Y	Warning light	12	10	Yellow	1 / 30	401525Y
LTE1101J - R	Warning light + siren	12	11	Red	1 / 30	401526R
LTE1101J - G	Warning light + siren	12	11	Green	1 / 30	401526G
LTE1101J - Y	Warning light + siren	12	11	Yellow	1 / 30	401526Y
LTE1101 - R	Warning light	230	8	Red	1 / 30	402525R
LTE1101 - G	Warning light	230	8	Green	1 / 30	402525G
LTE1101 - Y	Warning light	230	8	Yellow	1 / 30	402525Y
LTE1101J - R	Warning light + siren	230	9	Red	1 / 30	402526R
LTE1101J - G	Warning light + siren	230	9	Green	1 / 30	402526G
LTE1101J - Y	Warning light + siren	230	9	Yellow	1 / 30	402526Y
LTE1161 - R	Warning light	12	35	Red	1 / 8	401527R
LTE1161 - G	Warning light	12	35	Green	1 / 8	401527G
LTE1161 - Y	Warning light	12	35	Yellow	1 / 8	401527Y
LTE1161 - R	Warning light	230	28	Red	1 / 8	402527R
LTE1161 - G	Warning light	230	28	Green	1 / 8	402527G
LTE1161 - Y	Warning light	230	28	Yellow	1 / 8	402527Y
LTA205 - 1	Tower / flashing	12	4	1 - Red	1 / 20	401528
LTA205 - 2	Tower / flashing	12	8	2 - Red/Green	1 / 20	401529
LTA205 - 3	Tower / flashing	12	12	3 - Red/Yellow/Green	1 / 20	401530
LTA205 - 3J	Tower / flashing + siren	12	12	3 - Red/Yellow/Green	1 / 20	401531
LTA205 - 5	Tower / flashing	12	18	5 - Red/Yellow/Green/Blue/Transparent	1 / 20	401532
LTA205 - 1	Tower / flashing	230	6	1 - Red	1 / 20	402528
LTA205 - 2	Tower / flashing	230	8	2 - Red/Green	1 / 20	402529
LTA205 - 3	Tower / flashing	230	10	3 - Red/Yellow/Green	1 / 20	402530
LTA205 - 3J	Tower / flashing + siren	230	11	3 - Red/Yellow/Green	1 / 20	402531
LTA205 - 5	Tower / flashing	230	14	5 - Red/Yellow/Green/Blue/Transparent	1 / 20	402532

Warning lights and towers



Type	Description	Voltage (V)	Rated Power (W)	Sound level (dB)	Packing / Box (pcs)	Catalogue number
MS-290A	metal siren	230	60	100	1 / 24	401533
MS-290B	plastic siren	230	60	100	1 / 10	401541



Type	Description	Voltage (V)	Rated Power (W)	Sound level (dB)	Packing / Box (pcs)	Catalogue number
MS-390	siren	230	160	120	1 / 50	401534



Type	Description	Voltage (V)	Rated Power (W)	Sound level (dB)	Packing / Box (pcs)	Catalogue number
CB-4	alarm bell	12	-	85	1 / 50	401535
CB-4	alarm bell	24	-	85	1 / 50	401536
CB-4	alarm bell	110	-	85	1 / 50	401537
CB-4	alarm bell	230	-	85	1 / 50	401538



Type	Description	Voltage (V)	Rated Power (W)	Sound level (dB)	Packing / Box (pcs)	Catalogue number
FA-01	fire alarm	230	-	-	1 / 50	401540