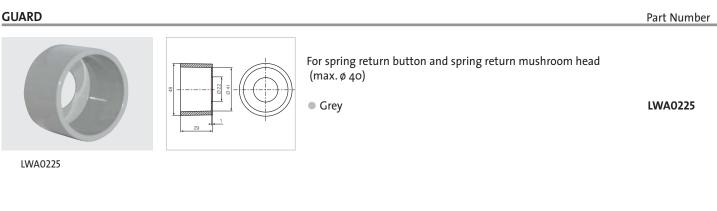
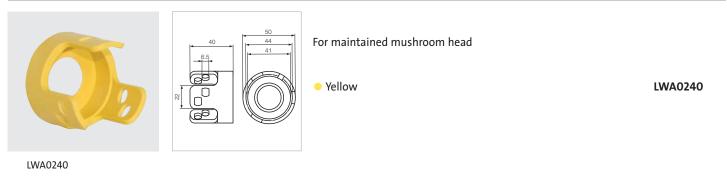
Accessories: Ø 22MM

MISCELLANEOUS

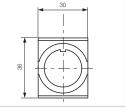


PADLOCKABLE GUARD



SQUARE FRAME





For turning a round shape button or a pilot light into a square shape

Black

LWA0230

LWA0230

RELAY TERMINAL (GROUND OR NEUTRAL)



Accessories: Ø 22MM

► MISCELLANEOUS

WA0237 I-ROTATION RING		LWA0237 LWA0209
Pla Pla	astic anti rotation ring - 22mm	LWA0209
Pla	astic anti rotation ring - 22mm	LWA0209
	astic anti rotation ring - 22mm	LWA0209
WA209		
NKING PLUG		
		LWA0229 LWA0215
WA0229		
EWDRIVER - FOR PLUG IN TERMINAL BLOCKS		
2.5 for	5mm (.098") flat head screwdriver r use with plug in terminal blocks	45040
15040		

MISCELLANEOUS

FIXING TOOL		Part Number
	Fixing tool for locking ring - 22mm only Fixing tool for locking ring - 22mm & 30mm	LWA0234 WA0210

LWA0234

REDUCTION RING Ø 30/22



Converts ø 30 mm panel cut-out to 22 mm hole

• Grey	LWA0219
• Yellow	LWA0220

LWA0219

PUSH BUTTON SUPPORT CLIP-ON TO DIN RAIL



For pilot lights, spring return buttons and selector switches LWA0238

LWA0238

PADLOCKABLE SHROUD



For flush or projected push-buttons only

LWA0226

LWA0226

► MISCELLANEOUS

REPLACEMENT KEYS		Part Number
$\cap \cap$	Replacement keys (set of 2) - key profile 455	455
	Replacement keys (set of 2) - key profile 1424A	1424A

455 / 1424a

LOCKING NUT



Plastic locking nut for 22mm operators

04006305

LWA0201

04006305

BULB EXTRACTOR



LWA0201

CABLE GLANDS

		Size	Cable Thickness	
	• Black	M20	6mm - 12mm	М20-ВК
	Grey	PG11	3mm - 7mm	PG11-GY
	Grey	PG13.5	6mm - 12mm	PG13-GY
The second se	Grey	PG16	10mm - 14mm	PG16-GY
	Grey	PG21	13mm - 18mm	PG21-GY
	Grey	PG29	18mm - 25mm	PG29-GY

For BA9S bulbs

M20-BK

Din-Rail Assemblies Ø 22

		NON	ILLUMINATED	
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LWA0238-301

SPRING RETURN - FLUSH Part Number Marking START LWA0238-101 Green NO 3____4 Red NC STOP LWA0238-104 ~_2

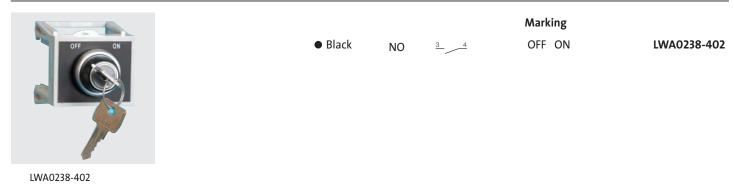
LWA0238-101

SELECTOR SWITCH - WITH HANDLE

				Marking	
OFF ON	● Black	NO	34	OFF ON	LWA0238-401

LWA0238-401

SELECTOR SWITCH - WITH KEY



MUSHROOM HEAD Ø 40 - MAINTAINED

Push-turn to reset



LWA0238-301

► GENERAL

racteristics	Data	Standards
 Storage temperature 	- 40 °C to + 70 °C	
 Operating temperature 	- 25 °C to + 70 °C	
 Climatic resistance 	Constant humid heat Cyclic damp heat Resistance to sea air	IEC 60068-2-3 IEC 60068-2-30 IEC 60068-2-52
 Degree of protection 	IP 66 for standard heads IP 67 for shrouded heads IP 66 for equipped control stations IP 20 at the rear of the panel for contact blocks and one piece pilot lights Type 1, 2, 3, 3R, 3S, 4, 4X, 12, and 13 for heads and control stations	IEC 60529 NEMA standard
 Protection against mechanical impacts 	IK o5 illuminated and non-illuminated heads IK o7 empty control station	IEC 62262
 Electrical insulation 	Class II - heads and control station	IEC 60947-5-1
 Terminal marking 		IEC 60947-1
 Tightening torques 	Locking ring: recommended 3 N.m terminals: max. 1.2 N.m	
Approvals	UL United states and Canada BV Bureau Véritas Certification OC/CB	UL 508, CSA 22.2 Marine rules IEC 60947-5-1 IEC 60947-5-5 IEC 60947-5-4
 Vibrations 	withstand vibration Fc test: 2 to 25 Hz, 1.6 mm; 25-100 Hz, 4 g	IEC 60068-2-6

HEADS

haracteristics	Data	Standards
Mechanical endurance	Spring return: 5,000,000	
	Push-push: 500,000	
	Selector switches: 300,000	
	Mushroom head maintained function EN 418:1	10,000
	Mushroom head maintained function: 150,000	
Activation force in N	Spring return + NO: 6.5	
	Spring return + NC: 4.5	
	Additional NO contact: 4.5	
	Additional NC contact: 3.0	
	Push-pull mushroom head + NO + NC: 27	
	Push-turn mushroom head + NO + NC: 22	
	Push-pull mushroom head EN 418 + NO + NC: 3	
	Push-turn mushroom head EN 418 + NO + NC: (60
Activation force in Nm	Selector switch + NO: 0.04	
	Additional NO contact: 0.03	

► EMERGENCY STOP ACTUATORS - EN 418/ISO 13850:

According to IEC/EN60947-5-5, the emergency stop function can be provided by an EN418/ISO13850 mushroom head combined with a "positive opening" NC contact block.

The mechanism of our EN418/ISO13850 mushroom heads is so designed that a "push" action of sufficient force to open the contact systematically triggers an irreversible locking of this opening. This generates an "emergency stop" signal which can be cancelled only by deliberate manual resetting of the mushroom head (pull and turn or unlocking by key).

This function allows to generate an "emergency stop" signal for any equipment subject to directive 98/37CE (machinery safety) completed by the IEC 60204-1 standard.

The EN418/ISO13850 mushroom heads also comply with the safety requirements detailed in standards EN418 and ISO13850.

CONTACT BLOCKS

w and plug-in connection characteristics	Data				Standa	rds
Rated insulation voltage	690 V AC				IEC/EN	60947-1
	600 V AC				UL 508	005474
► NC contacts	Positive o	pening			IEC/EN	60947-5-1
Rated impulse voltage Uimp	6kV					
Pollution degree	3					
 Conventional thermal current in free air conditions 	AC15: 10 A DC13: 2.5				IEC 609	947-5-1
 Electrical ratings 	Alternatin	g current	Direct	current	IEC 609	947-5-1
	AC15 - A 6		DC13 -			
	Ue = 120 \			5 V, le = 0.55 A		
	$Ue = 240^{10}$			50 V, le = 0.27 A		
	Ue = 380 V, le = 1.9 A Ue = 400 V, le = 0.15 Ue = 480 V, le = 1.5 A Ue = 500 V, le = 0.13					
	Ue = 500 V, $Ie = 0.13 AUe = 500 V$, $Ie = 0.13 AUe = 600 V$, $Ie = 0.14 A$					
	Ue = 600 V, le = 1.2 A					
		operating cu				
	- standard	DC and le = 5		plated contacts V DC and le = 1 m	٨	
	Failure rat	-		rate < 10 ⁻⁸	~	
	UL508					
	Continuou	g Current 50/6 s Current - 10 ; age - 600Vac		Continuou	rent - Q600 1s Current - 2.5 age - 600Vdc	amps
	Kated volta	Max. Amps	Max. Amps	Kated Volt	Max. Amps	Max. Amp
	Voltage	Make	Break	Voltage	Make	Break
	72	60	10	24	2.5	2.5
	120	60	6.0	125	0.55	0.55
	240 480	30 15	3.0 1.5	250 301-600	0.27 0.10	0.27 0.10
	600	12	1.2	J01 000	0.10	0.10
 Electrical operating life 	1 million c	vcles for:				
······································	- AC15 - B		- DC13 -	- R 300		
	Ue = 120 \			25 V, le = 0.22 A		
	Ue = 240 '	V, le = 1.5 A	Ue = 25	50 V, le = 0.1 A		
Applicable wire sizes	Rigid or fl	exible wire w	ithout ferrule: (0.5 mm ² to 2 x 2.	5 mm ²	
	-			mm ² to 2 x 1.5 mi		

► CONTACT BLOCKS

con connection	Data				Standaı	ds
Rated insulation voltage	320 V AC				IEC/EN	60947-1
	300 V AC				UL 508	
NC contacts	Positive o	pening			IEC/EN	60947-5-1
Rated impulse withstanding voltage Uimp	6 kV					
Pollution degree	3					
Conventional thermal current in free air conditions	AC 15: 10	4			IEC 609	947-5-1
	DC 13: 2.5	A				
 Electrical ratings 	Alternating current Direct current			IEC 609	IEC 60947-5-1	
	AC15 - A 3		DC13 - Q 3	00		
	Ue = 120 \			Ue = 125 V, le = 0.55 A		
	Ue = 240	V, le = 3 A	Ue = 250 \	/, le = 0.27 A		
		current of us				
		DC and $le = 5$	mA			
	Failure rat	e < 10 ⁻⁸				
	UL508					
	Alternatin	g Current 50/6	oHz - A300		rrent - Q300	
		s Current - 10 age - 300Vac	amps		us Current - 2.5 tage - 300Vdc	amps
	Voltage	Max. Amps Make	Max. Amps Break	Voltage	Max. Amps Make	Max. Amı Break
	72	60	10	24	2.5	2.5
	120	60	6.0	125	0.55	0.55
	240	30	3.0	250	0.27	0.27
 Electrical operating life 	1 million c					
	- AC15 - B		- DC13 - R			
	Ue = 120 \			, le = 0.22 A		
	Ue = 240	V, le = 1.5 A	Ue = 250 \	/, le = 0.1 A		
 Faston size 	6.35 mm (0.25") or 2 x 2	2.8 mm (0.110")			

CONTACT BLOCKS

style connection (for PCB)	Data				Standa	rds
Rated insulation voltage	250 V AC				IFC/FN	60947-1
	250 V AC				UL 508	000111
NC contacts	Positive o	pening			IEC/EN	60947-5-1
 Rated impulse withstanding voltage Uimp 	4 kV					
Pollution degree	3					
 Conventional thermal current in free air conditions 	AC 15: 5 A DC 13: 1 A				IEC 609	947-5-1
 Electrical ratings 	Alternatin AC 15 - B 3		Direct cur DC13 - R 30		IEC 60947-5-1	
	Ue = 120 V, Ie = 3 A Ue			Ue = 125 V, le = 0.22 A Ue = 250 V, le = 0.1 A		IEC 60947-5-4
	Minimum	current of us				
	- standard blocks - golden contacts				٨	
	Ue = 24 V DC and le = 5 mAUe = 5 V DC and le = 1 mAFailure rate < 10 $^{-8}$ Failure rate < 10 $^{-8}$				A	
	UL508					
	Continuou	g Current 50/6 s Current - 5 a age - 300Vac		Continuo	rrent - R300 us Current - 1 ar age - 300Vdc	np
		Max. Amps	Max. Amps		Max. Amps	Max. Am
	Voltage 72	Make 30	Break 5.0	Voltage 24	Make 1.0	Break 1.0
	120	30	3.0	125	0.22	0.22
	240	15	1.5	250	0.11	0.11
 Electrical operating life 	1 million c	vcles for				
	- AC15 - B		- DC13 - R	200		
	Ue = 120 V			, le = 0.22 A		
		V, le = 1.5 A	Ue = 250 \			
Pin diameter	ø 1 mm					

► LED BLOCKS FOR ILLUMINATED HEADS

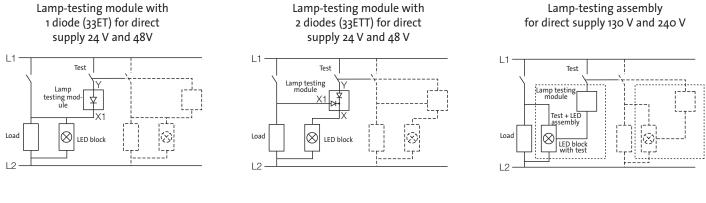
racteristics	Data	Standards
Rated insulation voltage	300 V	IEC/EN 60947-5-
 Rated impulse voltage Uimp Pollution degree 	4 kV (with filter block see p. 70) 3	IEC/EN 60947-1
 Operating voltage 	12 to 24 V AC/DC 48 V AC/DC (for LED block) 130 V AC 230 V AC	
► Frequency	50 or 60 Hz	
 Lifetime at rated supply voltage 	Red and yellow: 100 000 hours at 25 °C Other colors: 50 000 hours at 25 °C	
 Consumption of LED blocks 	Voltage: - 24 V: 25 mA ± 20% - 48 V: 15 mA ± 5% - 130 V: 20 mA ± 10% - 230 V: 16 mA ± 30%	

► ONE PIECE PILOT LIGHT BA9S

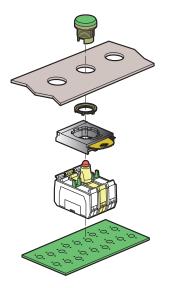
Characteristics	Data	
Rated insulation voltage	400 V	IEC 60947-5-1
 Rated impulse withstand voltage Uimp 	4 kV	IEC/EN 60947-1
 Bulb rating 	400 V max 2.6 W max. 240 V max 2.6 W max.	IEC 60947-5-1 UL 508

DIAGRAMS

PUSH-TO-TEST LED PILOT LIGHT DIAGRAMS

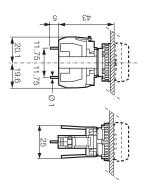


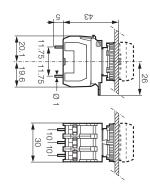
PRINTED CIRCUIT BOARD MOUNTING



PCB TERMINAL - SINGLE CLIP

PCB TERMINAL - 3 POSITION CLIP





PCB BOARD DRILL PLAN

