

# Approvals and Standards (CE Marked and EN/IEC Compliant)

## ø16mm Miniature Switches & Pilot Lights

Name		Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings
L6 series	Illuminated pushbutton	LA1L LA2L LA3L	LVD	CE marked	EN60947-5-1	TÜV Rheinland	<Switching capacity> AC-12 DC-12 (Gold-clad contacts) 125V AC, 0.1A 30V DC, 0.1A (Silver contacts) 250V AC, 2A 125V AC, 3A 125V DC, 0.4A 30V DC, 2A Conditional short-circuit current 50A <Illuminated unit ratings> (LED illuminated) 5V DC, 6, 12, 24V AC/DC
	Pilot light	LA1P LA2P LA3P					
	Pushbutton	LA1B LA2B LA3B					
	Lever Switch	LA1T					
	Selector Switch	LA1S LA2S LA3S					
	Key Selector Switch	LA1K LA2K LA3K					
H6 series	Illuminated pushbutton	HA1L HA2L HA3L	LVD	CE marked	EN60947-5-1	TÜV Rheinland	<Switching capacity> AC-12 DC-12 (Gold-clad contacts) 125V AC, 0.1A 30V DC, 0.1A (Silver contacts) 250V AC, 2A 125V AC, 3A 125V DC, 0.4A 30V DC, 2A Conditional short-circuit current 50A <Illuminated unit ratings> (LED illuminated) 5V DC, 6, 12, 24V AC/DC
	Pilot light	HA1P HA2P HA3P					
	Pushbutton	HA1B HA2B HA3B					
	Selector Switch	HA1S HA3S					
	Key Selector Switch	HA1K HA3K					
	Illuminated Selector Switch	HA1F HA3F					
	Selector Pushbutton	HA1R					
	A6 series	Illuminated pushbutton					
Pilot light		AL6-P					
Pushbutton		AB6					
Selector Switch		AS6					
Key Selector Switch							

## Miniature Key Lock Switches

Name		Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings
K series		KH KN	LVD	CE marked	EN60947-5-1	Self-declaration	(Silver contacts) 125V AC, 1A 30V DC, 1A (Gold-clad contacts) 30V DC, 0.1A

# Approvals and Standards (CE Marked and EN/IEC Compliant)

## ø22mm CW series Flush Silhouette Switches

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings (Note)
CW series	CW1B, CW4B	LVD	CE marked	EN60947-5-1	Self-declaration	AC-15 DC-13 AC-12 DC-12 *
	CW1L, CW4L					
	CW1S, CW4S					
	CW1K, CW4K					
	CW1P, CW4P					

\* Contact ratings

Operating Voltage		24V	120V	240V	Specification	Electrical life Specification 1: 50,000 minimum (operating frequency 1800/h) Specification 2: 100,000 minimum (operating frequency 1800/h)
Rated Current	AC (50/60Hz)	Resistive load (AC-12)	10A	10A	6A	
			5A	5A	3A	Specification 2
		Resistive load (AC-15)	10A	6A	3A	Specification 1
	DC	Resistive load (DC-12)	5A	3A	1.5A	Specification 2
			8A	2.2A	1.1A	Specification 1
		Resistive load (DC-13)	4A	1.1A	0.55A	Specification 2
		4A	1.1A	0.55A	Specification 1	
		2A	0.55A	0.27A	Specification 2	

## ø22mm HW series Switches & Pilot Lights

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings	
HW series	Pushbutton (Pushlock turn reset)	HW1E-BV4	LVD	CE marked	EN60947-1 EN60947-5-1 EN60947-5-5	TÜV SÜD	<Switching capacity> AC-15 (250V 3A) DC-13 (125V 0.3A) DC-12 (30V 0.05A) <Illuminated unit ratings> (LED illuminated) Full voltage: 6, 12, 24V AC/DC
		HW1E-LV4					
		HW1B-V3 HW1B-V4 HW1B-V5			EN60947-5-5	TÜV Rheinland	<Switching capacity> AC-15 (250V 3A) DC-13 (125V 1.1A) Early make/late break contacts
	(Pushlock key reset) (Push pull)	HW1B-X4					
	Pushbutton	HW1B-Y					
		HW1B			EN60947-5-1	TÜV Rheinland	AC-15 (250V 3A) DC-13 (125V 0.9A) <Illuminated unit ratings> (LED illuminated) Full voltage: 6, 12, 24V AC/DC Transformer: 100V to 480V AC (Incandescent illuminated) Full voltage: 6, 12, 24V AC/DC Transformer: 100V to 480V AC
		HW2B					
		HW3B					
	Dual pushbutton switch	HW7D					
	Pilot light	HW1P HW2P					
	Illuminated pushbutton	HW1L HW2L HW3L					
	Selector switch	HW1S					
	Key selector switch	HW1K					
	Illuminated selector switch	HW1F					
Selector pushbutton	HW1R						
Mono-lever switch	HW1M HW1M-L						

## ø22mm YW series Switches & Pilot Lights

Name	Model	Applicable Directive		Applicable Standard	Certification CE marking Organization	Ratings	Applicable IEC
		LVD	CE Marking on Product				
YW series	YW1B-V YW1L-V	LVD	MD	EN60947-5-5	TÜV SÜD		IEC 60947-5-5
	YW1B, YW4B, YW1B-V YW1L, YW4L, YW1L-V YW1S, YW4S YW1K, YW4K	LVD	MD	EN60947-5-1	Self-declaration	A600 (Note), Ui600V, Ith10A	IEC 60947-5-1
	YW1P						
							6, 12, 24V AC/DC 100/110, 230/240V AC

Note: For UL/CSA certification, see "Typical UL/CSA Contact Ratings in Approvals and Standards (UL/CSA)".

# Approvals and Standards (CE Marked and EN/IEC Compliant)

## ø22mm TW/LW series Switches & Pilot Lights

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings	
TW series	Pushbutton (Momentary) (Maintained)	LVD	CE marked	EN60947-5-1	TÜV Rheinland	<Switching capacity> AC-15 (250V 3A) DC-13 (125V 1.1A) Early make/late break contact AC-15 (250V 3A) DC-13 (125V 0.9A) <Illuminated unit ratings> (LED illuminated) Full voltage: 6, 12, 24V AC/DC Transformer: 100V to 480V AC (Incandescent illuminated) Full voltage: 6, 12, 24V AC/DC Transformer: 100V to 480V AC	
	(Pushlock turn reset)		AVW				–
	(Push turn lock ) (Push-pull) (Pushlock key reset)		AJW AYW AXW AXHW				CE marked
	Pilot light		APW, UPQW				
	Illuminated pushbutton (Momentary) (Maintained)		ALW, ALQW, ALFW AOLW, AOLQW, AOLFW				
	(Pushlock turn reset) (Push-pull)		AVLW AYLW				
	Selector switch		ASW, ASW□L ASW□M ASW□K				
Illuminated selector switch	ASLW						
LW series	Pushbutton	LVD	CE marked	EN60947-5-1	TÜV Rheinland	(gold-clad contacts) AC-12 (125V AC 0.1A) DC-12 (30V DC 0.1A) (silver contacts) AC-12 (125V AC 3A) AC-12 (250V AC 2A) DC-12 (30V DC 2A) DC-12 (125V DC 0.4A) (illuminated unit ratings) (LED illuminated) 6V DC, 12, 24V AC/DC (incandescent illuminated) 6, 12, 24V AC/DC	
	Pilot light (removable contact block/unibody)						LW1B, LW2B, LW3B, LW6B, LW7B, LW6MB LW1P, LW2P, LW3P, LW6P, LW7P
	Illuminated pushbutton						LW1L, LW2L, LW3L, LW6L, LW7L, LW6ML
	Selector switch						LW1S, LW3S, LW6S, LW6MS, LW7S
	Key selector switch						LW1K, LW3K, LW6K, LW6MK
	Illuminated selector switch						LW1F, LW3F

## ø25mm TWS series Switches & Pilot Lights

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings	
TWS series ø25mm Switches & Pilot Lights	Pushbutton	LVD	CE marked	EN60947-5-1	TÜV Rheinland	<Switching capacity> AC-15 (250V 3A) DC-13 (125V 1.1A) Early make/late break contacts AC-15 (250V 3A) DC-13 (125V 0.9A) <Illuminated unit ratings> (LED illuminated) Full voltage: 6, 12, 24V AC/DC Transformer: 100V to 480V AC (Incandescent illuminated) Full voltage: 6, 12, 24V AC/DC Transformer: 100V to 480V AC	
	Illuminated pushbutton						ABS, ABGS, ABFS, UBQS, AOS, AOGS, AOFs, UOQS, UBQS, AJS, AYS ALS, ALGS, ALFS, ULQS, AOLS, AOLGS, AOLF, UOLQS
	Selector switch						ASS, ASS□L
	Illuminated selector switch						ASLS
	Key selector switch						ASS□K
Pilot light	APS, UPQS						

# Approvals and Standards (CE Marked and EN/IEC Compliant)

## ø30mm series Switches & Pilot Lights

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings	
ø30mm series	<p>Pushbutton (Momentary)</p> <p>(Maintained)</p> <p>(Push turn lock)</p> <p>(Key)</p> <p>(Toggle lever)</p> <p>(Pull switch)</p> <p>(Twin square)</p> <p>(Pin lock)</p> <p>Twin maintained pushbutton</p> <p>Pilot light (LED/incandescent)</p> <p>(Push-to-check)</p> <p>Illuminated pushbutton (LED illuminated)</p> <p>(Incandescent illuminated)</p> <p>Selector switch</p> <p>Selector pushbutton</p> <p>Illuminated selector switch (LED/incandescent)</p>	<p>ABN1 ABN2 ABN2G, ABN2F ABN3, ABN3G ABN4 ABN4G, ABN4F UBQN1, UBQN2</p> <p>AON1 AON2 AON2G, AON2F AON3</p> <p>AJN3</p> <p>ABN5</p> <p>ATN4</p> <p>ATN23</p> <p>UWQN1</p> <p>ABN8P</p> <p>UWQN2 ABBN11</p> <p>APN1, APNE1 UPQN3B UPQN4, UPQNE4</p> <p>APNI□P</p> <p>ALN2, ALNE2 AOLN2, AOLNE2 ALGN2, ALGNE2 AOLGN2, AOLGNE2 AJLN3 ALN3, ALNE3 AOLN3, AOLNE3 ALN, ALNE AOLN, AOLNE3</p> <p>ALN□G, ALNE3G ALN□F, ALNE3F AOLN□F, AOLNE3F AJLN ALN3, ALNE3 AOLN3, AOLNE3 ULQN, UOLQN ULQN□B, UOLQN□B ALN□L</p> <p>ASN, ASN□L ASN□K ASTN, ASTN□L ASTN□K</p> <p>ABN ABN□L</p> <p>ASLN</p>	LVD	CE marked	EN60947-5-1	Self-declaration	<p>&lt;Contact block&gt; Part No. BS010E BS001E BS010SE BS001SE Rating AC-15: 3A, 250V AC AC-15: 2A, 400V AC AC-15:1.2A, 600V AC DC-13:1.1A, 125V DC</p> <p>&lt;Illuminated unit ratings&gt; (LED illuminated) Full voltage: 6, 12, 24V AC/DC Transformer: 100V to 480V AC (Incandescent illuminated) Full voltage: 6, 12, 24V AC/DC Transformer: 100V to 480V AC</p>
ø30mm HN series	Emergency stop switch (Pushlock turn reset) (Unibody)	HN1E-BV4 HN1E-LV4	LVD	CE marked	EN60947-5-5	TÜV SÜD	<p>AC-15: 3A, 250V AC DC-13: 0.3A, 125V DC DC-12: 50mA, 30V DC &lt;Illuminated unit ratings&gt; (LED/incandescent illuminated) Full voltage: 6, 12, 24V AC/DC</p>

# Approvals and Standards (CE Marked and EN/IEC Compliant)

## ø30mm series Diecast Zinc Switches & Pilot Lights

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings	
ø30mm Diecast Zinc series	Pushbutton (Momentary)	ABD1, ABD2 ABGD2, ABFD2 ABD3, ABGD3 ABD4, ABGD4 ABFD4	LVD	CE marked	EN60947-5-1	Self-declaration	<Contact block> Part No. BS010E BS001E BS010SE BS001SE Rating AC-15: 3A, 250V AC AC-15: 2A, 400V AC AC-15:1.2A, 600V AC DC-13:1.1A, 125V DC  <Illuminated unit ratings> (LED illuminated) Full voltage: 6, 12, 24V AC/DC Transformer: 100V to 480V AC (Incandescent illuminated) Full voltage: 6, 12, 24V AC/DC Transformer: 100V to 480V AC
	(Maintained)	AOD1, AOD2 AOGD2, AOFD2 AOD3, AOGD3					
	(Push turn lock)	AJD3					
	(Pull switch)	AYD31					
	(Pin lock)	ABD8P					
	Pilot light (LED/incandescent)	APD1, APDE1					
	Illuminated pushbutton (LED illuminated)	ALD2, ALDE2 ALFD2, AOLFD2 ALD3, AOLD3					
	(Incandescent illuminated)	ALD2, AOLD2 ALFD2, AOLFD2					
	Selector switch	ASD, ASD□L ASD□K					
	Selector pushbutton	ASBD2 ASBD2L					
Illuminated selector switch (LED/incandescent)	ASLD						

## FB series Plastic Enclosures

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings
FB series	FB1W-* FB1T-* FB2W-* FB2T-* FB3W-* FB3T-*	LVD	CE marked	EN60529	Self-declaration	IP65

# Approvals and Standards (CE Marked and EN/IEC Compliant)

## MA series Illuminated Pushbuttons/Pilot Lights/Pushbuttons

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings
MA series	MA2L, MA2P MA3L, MA3P MA8L, MA8P MA2B, MA3B MA8B	LVD	CE marked	EN60947-5-1	Self-declaration	Silver Contacts AC-12: 2A, 250V AC-12: 3A, 125V DC-12: 0.4A, 125V DC-12: 2A, 30V Gold-clad Silver Contacts AC-12: 0.1A, 125V DC-12: 0.1A, 30V <Illuminated unit ratings> (LED illuminated) 5V DC 12, 24V AC/DC

## MC series Illuminated Pushbuttons & Pilot Lights

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings
MC series	MC2D MC3D	LVD	CE marked	EN60947-5-1	TÜV Rheinland	Silver Contacts AC-12: 2A, 250V AC-12: 3A, 125V DC-12: 0.4A, 125V DC-12: 2A, 30V Gold-clad Silver Contacts AC-12: 0.1A, 125V DC-12: 0.1A, 30V <Illuminated unit ratings> (LED illuminated) 5V DC 6, 12, 24V AC/DC (Incandescent illuminated) 5, 12, 24V AC/DC

## SLC series Display Lights

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings
SLC30/40 series	SLC30N SLC40N	LVD	CE marked Note: Except DC-DC converter type, resistor type	EN60947-5-1	TÜV SÜD	6 to 24V AC/DC 100 to 240V AC

## SLDN series Display Lights

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings
SLDN series	SLD30N SLD44N SLD72N SLD48N	LVD	CE marked Note: Except DC-DC converter type, resistor type	EN60947-5-1	TÜV SÜD	6 to 24V AC/DC 100 to 240V AC

## Transformer

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings
TWR series	TWR512 TWR522 TWR542	LVD	CE marked	EN60947-5-1	Self-declaration	100 to 440V AC(LED illuminated)

# Approvals and Standards (CE Marked and EN/IEC Compliant)

## Interlock Switches

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings	
HS series Interlock Switch	Aluminum diecast	HS1B	LVD MD	CE marked	EN60947-5-1 GS-ET-15	TÜV SÜD	Main circuit/Monitor circuit 250V AC, 3A (AC-15)
	Plastic	HS2B	LVD MD	CE marked	EN60947-5-1 GS-ET-15	TÜV SÜD	Main circuit/Monitor circuit 250V AC, 3A (AC-15)
	Plastic Miniature	HS5B	LVD MD	CE marked	EN60947-5-1 GS-ET-15	TÜV SÜD	250V AC, 3A (AC-15) 30V DC, 4A (DC-13)
	Plastic Miniature	HS5D	LVD MD	CE marked	EN60947-5-1 GS-ET-15	TÜV SÜD	AC-15: 250V AC, 3A DC-13: 30V DC, 4A
	Plastic Miniature	HS6B	LVD MD	CE marked	EN60947-5-1 GS-ET-15	TÜV SÜD	240V AC, 0.75A (AC-15) 250V DC, 0.27A (DC-13) 30V DC, 2.3A (DC-13)
	Plastic Solenoid	HS1E	LVD MD	CE marked	EN60947-5-1 GS-ET-19	TÜV SÜD	Main circuit/Monitor circuit 250V AC, 3A (AC-15) 125V 0.9A (DC-13)
	Aluminum diecast solenoid	HS1C HS1C-K	LVD MD	CE marked	EN60947-5-1 GS-ET-19	TÜV SÜD	Main circuit/Monitor circuit 250V AC, 3A (AC-15) (DC-13)
	Plastic Miniature Solenoid	HS5E HS5E-K	LVD MD	CE marked	EN60947-5-1 GS-ET-19	TÜV SÜD	250V 0.75A (AC-15) 125V 0.22A (DC-13) 30V DC, 2.3A (DC-13)
	Plastic Miniature Solenoid	HS5L	LVD MD	CE marked	EN60947-5-1 GS-ET-19	TÜV SÜD	250V 0.75A (AC-15) 30V 2.3A (DC-13)
	Plastic Miniature Solenoid	HS6E	LVD MD	CE marked	EN60947-5-1 GS-ET-19	TÜV SÜD	Door monitor circuit AC15: 0.75A, 240V AC DC13: 0.27A, 250V DC DC13: 2.3A, 30V DC Main lock circuit AC15: 1A, 125V AC DC13: 0.22A, 125V DC DC13: 1A, 30V DC
	Plastic Miniature Solenoid	HS1L	LVD MD	CE marked	EN60947-5-1 GS-ET-19	TÜV SÜD	AC-15: 250V, 3A DC-13: 30V, 4A
HS7A	Self-declaration	HS7A*	LVD EMCD MD	CE marked	ENISO13849-1 ENISO14119 EN60204-1 EN62061 EN60947-1 EN60947-5-1	Self-declaration	Rated operating voltage 24V DC Rating operating current (without LED) 0.1 to 100 mA (with LED) 5 to 100 mA

\* Certification acquired in combination with the HRIS-DM safety relay.

## Safety Light Curtains

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings
SE4D	SE4D-**	LVD EMCD MD	CE marked	IEC61496-1 IEC61496-2 IEC61508-1 IEC61508-2 IEC61508-3 IEC61508-4 ENISO13849-1 EN50178 EN55011 EN61000-6-2	TÜV SÜD EMCD: self declaration	24V DC

# Approvals and Standards (CE Marked and EN/IEC Compliant)

## Emergency Stop Switches

Name		Model	Color Code	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Rated
X6 series ø16mm	Emergency stop switch	AB6E-3BV AB6E-4BV	RH RM	LVD MD	CE marked	EN60947-5-5	TÜV SÜD	250V AC, 1.5A (AC-15) 250V AC, 0.75A (AC-15) 30V DC, 1A (DC-13)
	Stop switch		Y	LVD		EN60947-5-1		
X6 series ø16mm (Note)	Emergency stop switch	XA1E-BV3**□ XA1E-BV3**V□ XA1E-BV4**□ XA1E-BV4**V□ XA1E-BV4**□ XA1E-BV4**V□	R RH	LVD MD	CE marked	EN60947-5-5	TÜV SÜD	250V, 1.5A (AC-15) 30V, 1A (DC-13)
		XA1E-LV3**Q4□ XA1E-LV3**Q4V□ XA1E-LV4**Q4□ XA1E-LV4**Q4V□	R					
XW series ø22mm	Emergency stop switch	XW1E-BV4**MF□ XW1E-BV4**M□ XW1E-BV4**MF□ XW1E-BV4**M□ XW1E-BV5**MF□ XW1E-BV5**M□ XW1E-BV4**□ XW1E-BV4**V□ XW1E-BV403V□-BC	R RH	LVD MD	CE marked	EN60947-5-5	TÜV SÜD	[Except -BC] 250V, 1.5A (AC-15) 30V, 1A (DC-13) [-BC] 125V, 1.5A (AC-15) 30V, 1A (DC-13)
		XW1E-LV4**Q4MF□ XW1E-LV4**Q4M□ XW1E-LV4**Q4□ XW1E-LV4**Q4V□ XW1E-TV4**Q4MF□ XW1E-TV4**Q4M□ XW1E-TV403Q4V□-BC	R					
XN series ø30mm	Emergency stop switch	XN1E-BV4**MF□ XN1E-BV4**M□ XN1E-BV5**MF□ XN1E-BV5**M□	R, RH	LVD MD	CE marked	EN60947-5-5	TÜV SÜD	250V, 1.5A (AC-15) 30V, 1A (DC-13)
		XN1E-LV4**Q4MFR XN1E-LV4**Q4MR	R					
		XN5E-BV4**MF□ XN5E-BV4**M□	R, RH					
		XN5E-LV4**MFR XN5E-LV4**MR XN5E-TV4**MFR XN5E-TV4**MR	R					
		XN4E-BL4**MFRH XN4E-BL4**MRH	RH					
		XN4E-LL4**Q4MFR XN4E-LL4**Q4MR XN4E-TL4**Q4MFR XN4E-TL4**Q4MR	R					

□ Color code: R (red), RH (bright red)  
 \*\*: Contact configuration  
 Note: Including EMO (solder terminal)



# Approvals and Standards (CE Marked and EN/IEC Compliant)

## Enabling Switches

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings
Enabling Switch	HE1B-M1	LVD MD	CE marked	IEC60947-5-8 EN60947-5-8	TÜV SÜD	AC-15: 0.75A, 250V AC DC-13: 0.22A, 125V DC
	HE2B-M2					3-position switch AC-12: 0.5A, 250V AC DC-12: 1A, 30V DC DC-13: 0.7A, 30V DC Monitor switch AC-15: 0.75A, 250V DC DC-13: 0.22A, 125V DC DC-13: 2.3A, 30V DC
	HE3B-M2					AC-12: 1A, 125V AC DC-12: 0.2A, 125V DC DC-12: 1A, 30V DC
	HE5B-M2					AC-12: 0.5A, 125V AC DC-12: 1A, 30V DC
	HE6B-M2			EN60947-5-8 GS-ET-22		3-position switch AC-12: 125V, 0.5A DC-12: 30V, 1A DC-13: 30V, 0.7A Monitor switch AC-15: 250V, 0.75A DC-13: 125V, 0.22A DC-13: 30V, 2.3A

## Grip Style Three-position Enabling Switches

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings	
Grip Style Three-position Enabling Switches	HE1G	LVD MD	CE marked	EN60947-5-1 EN60947-5-8 GS-ET-22	TÜV SÜD	3-position switch AC-15: 0.75A, 250V DC-13: 0.22A, 125V Monitor switch AC-15: 250V AC, 0.75A DC-13: 30V DC, 0.7A	
	HE1G-L			EN60947-5-1 EN60947-5-8 GS-ET-22		TÜV SÜD	3-position switch AC-15: 0.5A, 250V DC-13: 0.1A, 125V DC-13: 0.7A, 30V Monitor switch AC-15: 0.75A, 250V DC-13: 0.22A, 125V DC-13: 2.3A, 30V
	HE2G			EN60947-5-8 EN60947-5-1 GS-ET-22		TÜV SÜD	3-position switch AC-15: 250V AC, 0.5A DC-13: 125V DC, 0.1A DC-13: 30V DC, 0.7A Monitor switch AC-15: 250V AC, 0.75A DC-13: 125V DC, 0.22A DC-13: 30V DC, 2.3A With pilot light DC-13: 30V DC, 0.7A DC-13: 30V DC, 2.3A

# Approvals and Standards (CE Marked and EN/IEC Compliant)

## Safety Controllers

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings
FS1A Safety Controller	FS1A-C11S FS1A-C21S	LVD EMCD MD	CE marked	IEC61508 Part 1-7 EN954-1 EN ISO13849-1 IEC/EN62061 IEC/EN61496-1 IEC/EN61000-6-2 IEC/EN61000-6-4	TÜV SÜD	24V DC

## Safety Relay Modules

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings
Safety Relay Module	HR2S	EMCD MD	CE marked	EN954-1 EN ISO13849-1 EN50178 EN55011 EN61000-6-2 IEC/EN61496-1	TÜV SÜD	24V AC/DC
	HR1S-AC	EMCD MD		EN ISO13849-1 EN62061	TÜV NORD	24V AC/DC
	HR1S-AF series B	EMCD MD		EN60204-1 EN ISO13850	TÜV NORD	24V AC/DC
	HR1S-AK	EMCD MD			TÜV NORD	HR1S-AK311144/P: 24V AC/DC  HR1S-AK351144/P: 120V AC, 24V DC
	HR1S-ATE	EMCD MD			TÜV NORD	24V AC/DC
	HR1S-DMB/DME	EMCD MD			TÜV NORD	24V AC/DC

## Forced Guide Relays/Relay Sockets

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings	
RF2S Force guided relay	Plug-in terminal	RF2S	LVD	CE marked	EN61810-1 EN50205	TÜV SÜD	240V AC, 6A (NO) 24V DC, 6A (NO) 240V AC, 3A (NC) 24V DC, 3A (NC) coil: 12, 24, 48V DC 100, 110-125V DC
	PC board terminal	RF2V					
SJ2S Relay socket	DIN rail finger-safe screw terminal Finger-safe screw terminal	SJ2S-07L	LVD	CE marked	EN60999-1	Self declaration	
	PC board terminal	SJ2S					
RF1V Force guided relay	RF1V	LVD	—	TÜV SÜD EN50205	TÜV SÜD	250V AC, 6A 30V DC, 6A coil: 12, 24, 48V DC	
SF1V Relay socket	SF1V-4 SF1V-6	LVD	CE marked (DIN rail sockets only)	EN147000 EN147100	TÜV SÜD	250V AC 6A	

# Approvals and Standards (CE Marked and EN/IEC Compliant)

## General Purpose Relays, PC Board Mount Relays, and Sockets

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings
RU Universal Relay	RU4	LVD	CE marked	EN61810-1	TÜV SÜD	Contact: 250V AC 6A 30V DC 6A
	RU42					Contact: 250V AC 3A 30V DC 3A
	RU2					Contact: 250V AC 10A 30V DC 10A
RR Power Relay	RR2P RR3P	LVD	CE marked	EN61810-1	TÜV SÜD	Contact: 240V AC 10A 30V DC 10A
RH Power Relay	RH1B RH1V2 RH2B RH2V2					Contact: 240V AC 10A 30V DC 10A
	RH3B RH3V2 RH4B RH4V2					Contact: 240V AC 7.5A 30V DC 10A
RM Miniature Relay	RM2S RM2V					Contact: 240V AC 5A 30V DC 5A
RY Miniature Relay	RY2S RY2V RY22S RY22V	Contact: 240V AC 3A 30V DC 3A 240V AC 0.8A 30V DC 1A				
	RY4S-U RY4V-U RY42S-U RY42V-U	Contact: 240V AC 5A 30V DC 5A 240V AC 0.8A 30V DC 1A				
RV3T PC Board Mount Relay	RV3T-1 RV3T-2	LVD	CE marked	DIN VDE 0435 Teil 120 DIN VDE 0435 Teil 201	TÜV Rheinland	Contact: 240V AC 5A 120V DC 5A
RJ Slim Relay	RJ1S	LVD	CE marked	EN61810-1	VDE	Contact: 250V AC 12A 30V DC 12A [High capacity] 240V AC 16A 30V DC 16A
	RJ2S					Contact: 250V AC 8A 30V DC 8A
	RJ22S					Contact: 250V AC 1A 30V DC 1A
SR Socket	SR2P, SR2P SR3P, SR3P (Finger-safe) SR2P-05C SR3P-05C	LVD	CE (Only fingersafe type are shown)	EN61810-1 EN61810-5 (IEC60664-1)  (Finger-safe) EN60529	TÜV SÜD	300V AC/DC 10A
SH Socket	SH1B SH2B SH3B SH4B (Finger-safe) SH1B-05C SH2B-05C SH3B-05C SH4B-05C					300V AC/DC 10A
SM Socket	SM2S (Finger-safe) SM2S-05C					300V AC/DC 10A
SY Socket	SY2S SY4S (Finger-safe) SY2S-05C SY4S-05C					300V AC/DC 7A
SU Socket	SU2S-11L SU4S-11L	LVD	CE marked	EN60999-1	Self-declaration	10A/250V 6A/250V 10A/250V
SJ Socket	SJ1S-07L SJ2S-07L	LVD	CE marked	EN60999-1	Self-declaration	12A/250V 8A/250V
DF Socket	SY4S-05DF SM2S-05DF	LVD	CE marked	EN60999-1	Self-declaration	6A/250V 10A/250V

## Approvals and Standards (CE Marked and EN/IEC Compliant)

### Timers

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings
GT3 series Multi-Function Timer	GT3A GT3F GT3S GT3W	LVD EMCD	CE marked	EN61812-1	Self-declaration	Operating voltage: GT3A, GT3W 100 to 240V A 12V DC 24V AC/DC  GT3F 100 to 240V AC 24V AC/DC  GT3S 100 to 240V AC
GT5 series Miniature Electronic Timer	GT5Y GT5P	LVD EMCD	CE marked	EN61812-1	Self-declaration	Operating voltage: 100 to 120V AC 200 to 240V AC 24V AC/DC 12V DC

# Approvals and Standards (CE Marked and EN/IEC Compliant)

## Terminal Blocks

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings		
						Voltage/Current Matching Wire AWG (mm <sup>2</sup> )		
BN/BNH series Rail mount	Standard	BN10W	LVD	—	EN60947-7-1	TÜV Rheinland	660 V/16A	22-16 (1.25)
		BNH10W					660 V/16A	22-16 (1.25)
		BN15MW					660 V/22A	22-14 (2.00)
		BNH15MW					660 V/22A	22-14 (2.00)
		BN15LW					660 V/22A	22-14 (2.00)
		BNH15LW					660 V/22A	22-14 (2.00)
		BN30W					660 V/38A	18-10 (5.50)
		BNH30W					660 V/38A	18-10 (5.50)
		BN40W					660 V/50A	16-8 (8.00)
		BNH40W					660 V/50A	16-8 (8.00)
	BN50W	660 V/67A	16-6 (14.00)					
	BNH50W	660 V/67A	16-6 (14.00)					
Screw-up	BN15MWT	660 V/22A	22-14 (2.00)					
	BNH15MWT	660 V/22A	22-14 (2.00)					
	BN15LWT	660 V/22A	22-14 (2.00)					
Large capacity	BN1U-16W	LVD	—	EN60947-7-1	TÜV Rheinland	660 V/22A	22-14 (3.50)	
	BN1U-20W					660 V/22A	22-14 (3.50)	
	BN1U-40W					660 V/22A	22-14 (2.00)	
	BN75W					660 V/22A	22-14 (2.00)	
	BN100W					660 V/22A	22-14 (2.00)	
	BN150W					660 V/22A	22-14 (2.00)	
	BN200BW□					660 V/22A	22-14 (2.00)	
	BN200NW□					660 V/22A	22-14 (2.00)	
	BN300BW□					660 V/22A	22-14 (2.00)	
	BN300NW□					660 V/22A	22-14 (2.00)	
BN400BW□	660 V/22A	22-14 (2.00)						
BN400NW□	660 V/22A	22-14 (2.00)						
BN500BW□	660 V/22A	22-14 (2.00)						
BN500NW□	660 V/22A	22-14 (2.00)						
BN600NW□	660 V/22A	22-14 (2.00)						
Double-deck	BND15W	LVD	—	EN60947-7-1	TÜV Rheinland	660 V/22A	22-14 (2)	
	BNDH15W					660 V/22A	22-14 (2)	
	BND15LW					660 V/22A	22-14 (2)	
	BNDH15LW					660 V/22A	22-14 (2)	
	BND15WT					660 V/22A	22-14 (2)	
BNDH15WT	660 V/22A	22-14 (2)						
BTB, BTBH series Surface mount	Standard	BTB15C□	LVD	—	EN60947-7-1	Self-declaration	500V/22A	18-14 (2.00)
		BTBH15C□					500V/22A	18-14 (2.00)
		BTB15LC□					500V/22A	18-14 (2.00)
		BTBH15LC□					500V/22A	18-14 (2.00)
		BTB30C□					500V/22A	18-14 (2.00)
		BTBH30C□					500V/38A	14-10 (5.50)
		BTB50C□					500V/38A	14-10 (5.50)
		BTBH50C□					500V/67A	10-6 (14.00)
		BTB50C□					500V/67A	10-6 (14.00)
BC series	Standard	BC1S-1.5	LVD	—	EN60947-1 EN60947-7-1	Self-declaration	300V/15A	26-14
		BC1S-2.5					600V/20A	26-12
		BC1S-4					600V/30A	20-10
		BC1S-6					600V/50A	20-8
		BC1S-10					600V/65A	16-6
		BC1S-1.5T					300V/15A	26-14
		BC1S-2.5T					600V/20A	26-12
		BC1S-4T					600V/30A	20-10
		BC1S-1.5Q					300V/15A	26-14
		BC1S-2.5Q					600V/20A	26-12
		BC1S-4Q					600V/30A	20-10
		BC1D-1.5					300V/15A	26-14
		BC1D-2.5					600V/20A	26-12
		BC1D-4					600V/30A	20-10
		Grounding					BC1S-1.5PE	LVD
	BC1S-2.5PE		800V	26-12				
	BC1S-4PE		800V	20-10				
	BC1S-6PE	800V	20-8					
BC1S-10PE	800V	16-6						
BC1S-1.5TPE	500V	26-14						
BC1S-2.5TPE	800V	26-12						
BC1S-4TPE	800V	20-10						
BC1S-1.5QPE	500V	26-14						
BC1S-2.5QPE	800V	26-12						
BC1S-4QPE	800V	20-10						
BC1D-1.5PE	500V	26-14						
BC1D-2.5PE	500V	26-12						
BC1D-4PE	500V	20-10						

# Approvals and Standards (CE Marked and EN/IEC Compliant)

## Circuit Protectors

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings	
NRA (Hydraulic-magnetic tripping)	NRAS NRAN NRAR NRAK	LVD	CE marked	EN60934	VDE	250V AC 50/60 Hz 65V DC Current trip 0.3 to 30A Time delay curve AA, BA, MA, AD, MD	
NRBM (Hydraulic-magnetic tripping)	NRBM			EN60934	VDE	250V AC 50/60 Hz 65V DC Current trip 1.0 to 50A Time delay curve AA, BA, MA, AD, MD	
NRL (Hydraulic-magnetic tripping)	NRLT (Lever) NRLY (Rocker) NRLR (Rocker) NRLK (Large rocker) NRLP (Lever PC board terminal)			EN60934	VDE	250V AC 50/60 Hz 50V DC Current trip 0.1 to 20A Time delay curve AA, BA, AD, BD, EA, ED	
NH1 (Hydraulic-magnetic tripping)	NH1S (Lever) NH1Y (Rocker) NH1L (Rocker/indicator) NH1V (Lever panel mount/DIN rail mount)			EN60934	VDE	250V AC 50/60 Hz 65V DC Current trip 0.5 to 30A Time delay curve MA, AA, BA, MD, AD	
NRF (Thermal tripping)	NRF110			—	EN60934	TÜV SÜD	250V AC 50/60 Hz 32V DC 8A, 10A, 15A
NC1V (For DIN Rail)	NC1V			CE marked	EN60934	TÜV SÜD	250V AC 50/60 Hz 65V DC (1pole) 250V AC 50/60 Hz 125V DC (2pole)
				EN60947-2	Self-declaration	250V AC 50/60 Hz (3pole) Time delay curve S, A, M	

## PS5R Switching Power Supplies

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings
PS5R Switching Power Supply	(Output capacity 7.5W) PS5R-A12 PS5R-A24	LVD EMCD	CE marked	EN60950 EN55011 class A EN61000-6-2 EN61000-6-4	TÜV SÜD EMCD (self-declaration)	Output rating: 12V DC 0.6A 24V DC 0.3A Input voltage: 100 to 240V AC 50/60 Hz
	(Output capacity 15W) PS5R-B12 PS5R-B24					Output rating: 12V DC 1.2A 24V DC 0.6A Input voltage: 100 to 240V AC 50/60 Hz
	(Output capacity 30W) PS5R-C12 PS5R-C24					Output rating: 12V DC 2.5A 24V DC 1.3A Input voltage: 100 to 240V AC50/60 Hz
	(Output capacity 50W) PS5R-D24					Output rating: 24V DC 2.1A Input voltage: 100 to 240V AC 50/60 Hz
	(Output capacity 100W) PS5R-E24					Output rating: 24V DC 4.2A Input voltage: 100 to 120V/ 200 to 240V AC 50/60 Hz
	(Output capacity 75W) PS5R-Q24					EN60950 EN55011 class A EN61000-3-2/-3 EN61000-6-2
	(Output capacity 120W) PS5R-F24			Output rating: 24V DC 5A Input voltage: 100 to 240V AC 50/60 Hz		
	(Output capacity 240W) PS5R-G24			Output rating: 24V DC 10A Input voltage: 100 to 240V AC 50/60 Hz		

# Approvals and Standards (CE Marked and EN/IEC Compliant)

## PS5R-S Switching Power Supplies

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings		
						Output	Input	
PS5R-S	10W model	PS5R-SB05	LVD EMCD	CE marked	EN50178 EN60950-1	TÜV SÜD EMCD (self-declaration)	5V DC 2.0 A	100 to 240V AC 50/60 Hz
	15W model	PS5R-SB12 PS5R-SB24					12V DC 1.2 A 24V DC 0.65 A	
	30W model	PS5R-SC12 PS5R-SC24					12V DC 2.5 A 24V DC 1.3 A	
	60W model	PS5R-SD24					24V DC 2.5 A	
	90W model	PS5R-SE24					24V DC 3.75 A	
	120W model	PS5R-SF24					24V DC 5 A	
	240W model	PS5R-SG24					24V DC 10 A	

## PS5R-V Switching Power Supplies

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings		
						Output	Input	
PS5R-V	10W model	PS5R-VB05	LVD EMCD	CE marked	EN60950-1 EN50178 EN61204-3 EN50581	TÜV SÜD EMCD (self-declaration)	5V DC 2.0 A	100 to 240V AC 50/60 Hz
	15W model	PS5R-VB12 PS5R-VB24					12V DC 1.3 A 24V DC 0.65 A	
	30W model	PS5R-VC12 PS5R-VC24					12V DC 2.5 A 24V DC 1.3 A	
	60W model	PS5R-VD24					24V DC 2.5 A	
	90W model	PS5R-VE24					24V DC 3.75 A	
	120W model	PS5R-VF24					24V DC 5 A	
	240W model	PS5R-VG24					24V DC 10 A	

## PS6R Switching Power Supplies

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings		
						Output	Input	
PS6R	120W model	PS6R-F24	LVD EMCD	CE marked	EN60950-1 EN50178 EN61204-3	TÜV SÜD EMCD (self-declaration)	24V DC 5 A	100 to 240V AC 50/60 Hz
	240W model	PS6R-G24					24V DC 10 A	
	480W model	PS6R-J24					24V DC 20 A	

## PS3L Switching Power Supplies

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings		
						Output	Input	
PS3L	30W model	PS3L-C05 PS3L-C12 PS3L-C24	LVD EMCD	CE marked	EN60950-1 EN50178 EN61000-3-2/-3 EN61000-6-2/-4	TÜV SÜD EMCD (self-declaration)	5V DC 6A	100 to 240V AC 50/60 Hz
	50W model	PS3L-D12 PS3L-D24					12V DC 2.5A 24V DC 1.3A	
							12V DC 4.3A 24V DC 2.2A	
	100W model	PS3L-E12 PS3L-E24					12V DC 8.5A 24V DC 4.5A	
	150W model	PS3L-F12 PS3L-F24					12V DC 13A 24V DC 6.5A	
300W model	PS3L-G24	24V DC 12.5A 50-60 Hz						

## PS3X Switching Power Supplies

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings		
						Output	Input	
PS3X	15W model	PS3X-B05AFC PS3X-B12AFC PS3X-B24AFC	LVD EMCD	CE marked	EN60950-1 EN55022 EN55024	TÜV Rheinland EMCD (self-declaration)	5V DC, 3A	100-240V AC 47-63Hz
	25W model	PS3X-C05AFC PS3X-C12AFC PS3X-C24AFC					12V DC, 1.3A 24V DC, 0.63A	
							5V DC, 5A 12V DC, 2.1A 24V DC, 1.1A	
	50W model	PS3X-D05AFG PS3X-D12AFG PS3X-D24AFG					5V DC, 9A 12V DC, 4.2A 24V DC, 2.2A	
	75W model	PS3X-Q05AFG PS3X-Q12AFG PS3X-Q24AFG					5V DC, 12A 12V DC, 6A 24V DC, 3.2A	
100W model	PS3X-E05AFG PS3X-E12AFG PS3X-E24AFG	5V DC, 16A 12V DC, 8.5A 24V DC, 4.5A						

# Approvals and Standards (CE Marked and EN/IEC Compliant)

## Programmable Controllers

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings (power input)
FC4A/FC5A MicroSmart	FC4A/FC5A	LVD EMCD	CE marked	EN61131-2	Self-declaration	100 to 240V AC 24V DC
FC6A MicroSmart	FC6A			EN61131-2		12V DC 24V DC 100 to 240V AC
FL1F SmartRelay	FL1F			EN61131-2 EN61000-6-1 EN61000-6-2 EN61000-6-3 EN61000-6-4		24V DC 12/24V DC 24V AC/DC 100 to 240V AC/DC
FT1A SmartAxis	FT1A			EN61131-2		24V DC 100 to 240V AC

## Operator Interfaces

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings (power input)
HG1	HG1F	LVD EMCD	CE marked	EN61131-2 (LVD/EMCD)	Self-declaration	24V DC
HG2	HG2G					
HG3	HG3G					
HG4	HG4G					

## CC Pendants

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings (power input)
CC Pendants	HG1T-S	EMCD	CE marked	EN61000-6-2 EN61000-6-4	Self-declaration	24V DC
	HG1H	EMCD	CE marked	EN61000-6-2 EN61000-6-4	Self-declaration	5V DC 24V DC
	HG1U	EMCD	CE marked	EN61000-6-2 EN61000-6-4	Self-declaration	5V DC 24V DC

## Sensors

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings (power input)
SA1U Photoelectric Switches	SA1U	LVD EMCD	CE marked	EN60947-5-2	Self-declaration	24 to 240V AC 12 to 240V DC 12 to 24V DC
SA1E Miniature Photoelectric Switches	SA1E SA1E-X	EMCD	CE marked	EN60947-5-2	Self-declaration	12 to 24V DC

## Linear CCD Scanner

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings (power input)
WB1F	WB1F	EMCD	CE marked	EN61000-6-1 EN61000-6-3 EN55022 EN55024	Self-declaration	5V DC



## Approvals and Standards (CE Marked and EN/IEC Compliant)

### LED Illumination Units

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings (power input)
LED Illumination Units	LF1D	EMCD RoHS	CE marked	EN55015 EN61547 EN50581	Self-declaration	24V DC
	LF2D					
	LF1B-N					
	LF1A (standard)	EMCD		EN55015 EN61547 EN60598-1 EN50581		100 to 240V AC
	LF2B (AC power)					
LF2B (DC power)	LVD EMCD RoHS	EN55015 EN61547 EN50581	12/24V DC			

### LD6A Signalight Towers

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings (power input)
LED Signalight Towers	LD6A	EMCD RoHS	CE marked	EN60947-5-1	Self-declaration	24V DC

### LH series Surface Mount Indicators

Name	Model	Applicable Directive	CE Marking on Product	Applicable Standard	Certification CE marking Organization	Ratings (power input)
Surface Mount Indicators	LH1D	LVD	CE marked	EN60598-2-1 EN60947-5-1	TÜV SÜD EN60947-5-1 Self-declaration	Cable wiring model 24V AC/DC Connector wiring model 24V DC