



Control and Signaling **E-LINE** with M22 thread for Ex “eb” / Ex “tb” Enclosures zone 1, 2, 21, and 22




Construction and Design




SERMATEX'S **E LINE** OF CONTROL AND SIGNALING OPERATORS HAS BEEN CAREFULLY DEVELOPED TO MEET THE NEEDS OF ELECTRICAL CONTROL AND SIGNALING IN A WIDE RANGE OF INDUSTRIAL APPLICATIONS IN EXPLOSIVE ATMOSPHERES.

TO ENSURE A HIGH STANDARD OF QUALITY AND PROVIDE RELIABLE PERFORMANCE IN INDUSTRIAL CONTROL AND SIGNALING CIRCUITS IN EXPLOSIVE ATMOSPHERES, SERMATEX PRODUCTS ARE MANUFACTURED WITH HIGH-QUALITY RAW MATERIALS.


THE **E LINE** IS ALSO CHARACTERIZED BY ITS ROBUSTNESS, RELIABILITY, AND EXCELLENT COST-BENEFIT RATIO, AND IS 100% TESTED.




THE ENTIRE **E LINE** IS MANUFACTURED WITH FLAME-RETARDANT MATERIALS.



THE **E LINE** IS DESIGNED WITH HIGH MECHANICAL RESISTANCE MATERIALS, MAKING THE OPERATORS IMPACT RESISTANT AND IDEAL FOR HEAVY-DUTY APPLICATIONS.



THE MATERIALS IN THE **E LINE** ALSO CONTAIN ADDITIVES FOR PROTECTION AGAINST ULTRAVIOLET RAYS, ENSURING SAFETY AND RELIABILITY IN APPLICATIONS IN OUTDOOR AND HARSH ENVIRONMENTS.

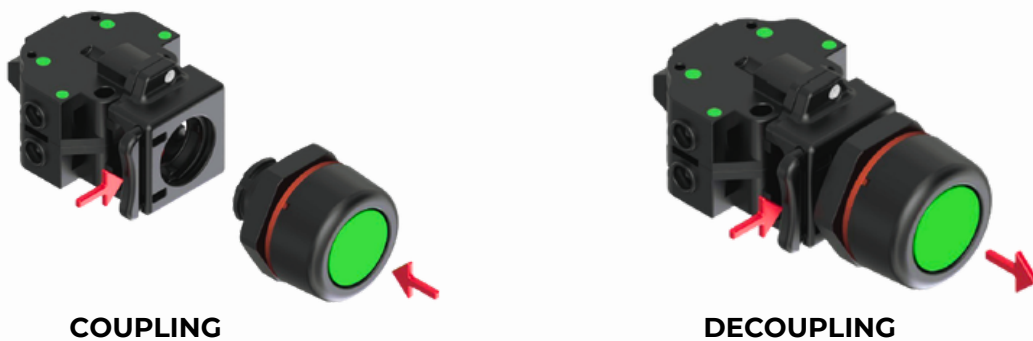


THE **E LINE** HAS AN IP66 PROTECTION, IN ACCORDANCE WITH IEC 60529, PROVIDING ADEQUATE PERFORMANCE EVEN IN ENVIRONMENTS WHERE CONTAMINATING AGENTS SUCH AS DUST AND LIQUIDS ARE PRESENT.

Speed in Assembly and Maintenance



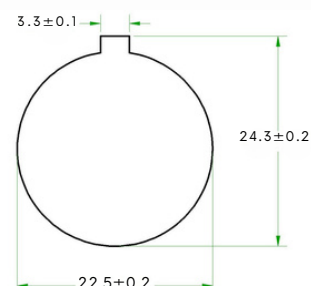
THE CONTACT BLOCKS AND SIGNALING BLOCKS IN THE E-LINE ARE QUICK AND EASY TO INSTALL, AS THEY ARE CONNECTED AND DISCONNECTED ON THE FRONT PANEL (BUTTONS, SELECTORS, AND LIGHT INDICATORS) USING SPECIAL FLANGES, WITHOUT THE NEED FOR TOOLS, WITH JUST ONE CLICK FOR PROPER ATTACHMENT AND DETACHMENT.



TECHNICAL INFORMATION

TEMPERATURE RANGE:	.....	-20°C to 60°C
OPERATOR MARKING:	.....	Ex eb IIC Gb Ex tb IIIC Db
CONTACT BLOCK MARKING:	.....	Ex db eb IIC Gb
LID THICKNESS:	.....	1,5 à 9,0 mm
INGRESS PROTECTION:	.....	IP66
CERTIFICADO DE CONFORMIDADE	.....	NCC 24.0128 U UL/BR 17.0027 U
OPERATOR THREAD SIZE:	.....	M22x1,5
TIGHTENING TORQUE OF THE LOCK NUT	.....	4 Nm
DESIGN OF THE HOLE WHERE THE OPERATOR WILL BE PLACED	.....

CERTIFICATION


























Diversity in Applications



THE **E LINE** HAS A VARIETY OF SOLUTIONS TO MEET THE APPLICATIONS AND COMPLEXITIES OF INSTALLATIONS.

THE CONTROL AND SIGNALING PORTFOLIO INCLUDES SEVERAL TYPES OF BUTTONS: PUSH BUTTONS, DOUBLE PUSH BUTTONS, AND EMERGENCY BUTTONS, AND HAS HIGH-PERFORMANCE LEDs IN THE SIGNALING BLOCK, ENSURING HIGH BRIGHTNESS AND LONG LIFE.

		<ul style="list-style-type: none"> <li style="margin-right: 20px;"> EBIVD <li style="margin-right: 20px;"> EBIVM <li style="margin-right: 20px;"> EBIAZ <li style="margin-right: 20px;"> EBIBR <li style="margin-right: 20px;"> EBIPR <li style="margin-right: 20px;"> EBIAM
		 EBEMO
		 EBETR
		 EBEG
		<ul style="list-style-type: none"> <li style="margin-right: 20px;">  EBDVDVM <li style="margin-right: 20px;">  EBDAZPR

Diversity in Applications




ALL ITEMS IN THE LINE HAVE BEEN DESIGNED AND PERFORM AND SAFETY IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

- ABNT NBR IEC 60079-0 (GENERAL REQUIREMENTS)
- ABNT NBR IEC 60079-1 (EXPLOSION PROOF)
- ABNT NBR IEC 60079-7 (INCREASED SAFETY)
- ABNT NBR IEC 60079-18 (ENCAPSULATION)
- ABNT NBR IEC 60079-31 (DUST IGNITION PROTECTION)
- ABNT NBR IEC 60529 (DEGREE OF PROTECTION)
- ABNT NBR IEC 60947-5-1 (SWITCHING DEVICES AND ELEMENTS).

CONTACT BLOCKS

(The operator models shown above can be used with these contact blocks.)






Rated voltage (Ui): 500 V
 Rated current (Ith): 10 A
 AC15: 230 VCA / 6 A
 DC13: 24 VDC / 3 A

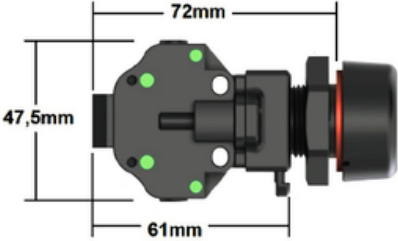
Terminal capacity:
 Rigid wire 0.75 - 2.5mm²
 Flexible cable 0.5 - 1.5mm

									
EXC11G		EXC02G		EXC20G		EXC01G		EXC10G	

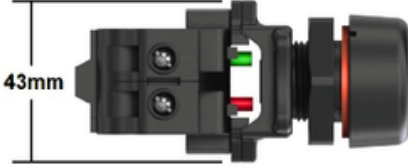
Example of a
Green Push Button
with
Contact Block
1NO+1NC:


+

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EBIVD EXC11G



72mm
47,5mm
61mm



43mm

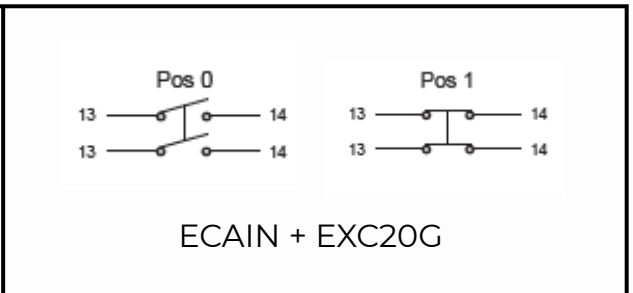
Diversity in Applications



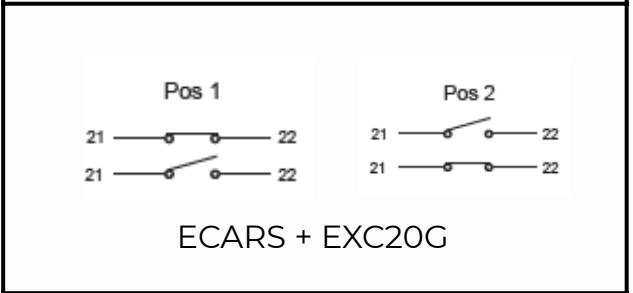
ROTARY SWITCHES

		<p>ON/OFF Positions: ECAIN Double-throw without Off position: ECARS Double-throw with Off position: ECARC Double-throw with Off position and return 0-1: ECARIE</p>
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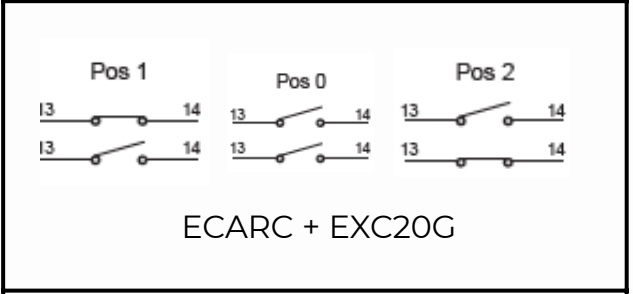
ON/OFF POSITIONS
 2 pole 2 positions
 2 NO



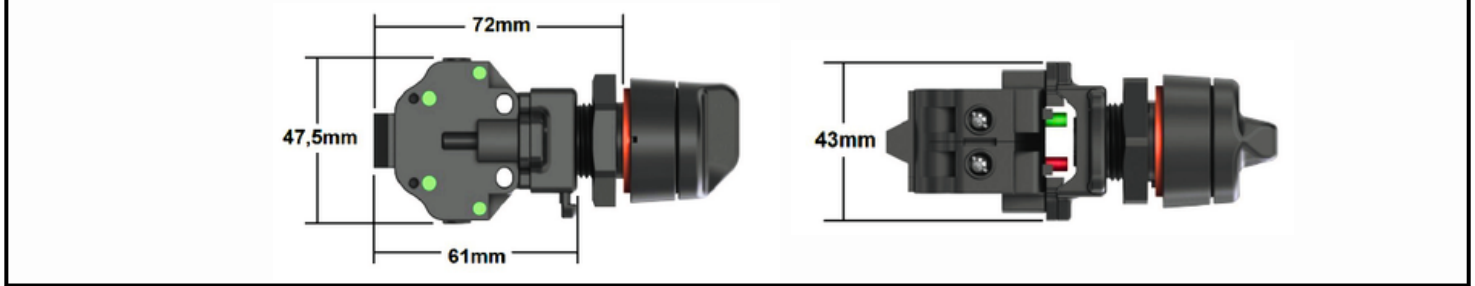
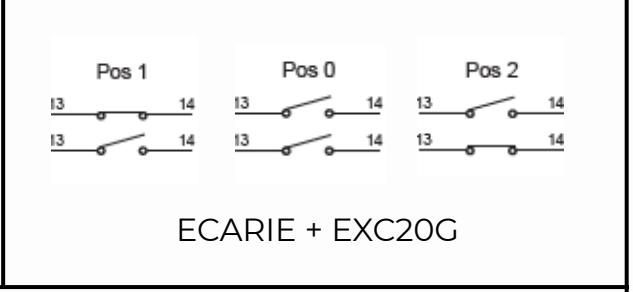
DOUBLE-THROW
 WITHOUT OFF
 POSITION
 1 pole 2 positions
 1NO + 1NC



DOUBLE-THROW
 WITH OFF
 POSITION
 1 pole 3 positions
 2NO



DOUBLE-THROW
 WITH OFF POSITION
 1 pole 3 positions
 with spring return to
 center from right,
 hold in left 2NO




Diversity in Applications





















PILOT LIGHT

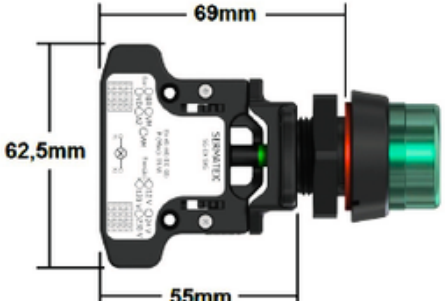
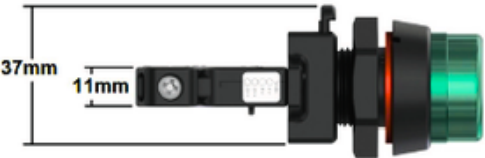
		<table border="0"> <tr> <td></td> <td>ESIVD</td> <td></td> <td>ESIBR</td> </tr> <tr> <td></td> <td>ESIVM</td> <td></td> <td>ESIAM</td> </tr> <tr> <td></td> <td>ESIAZ</td> <td></td> <td></td> </tr> </table>		ESIVD		ESIBR		ESIVM		ESIAM		ESIAZ		
	ESIVD		ESIBR											
	ESIVM		ESIAM											
	ESIAZ													

BLOCK WITH LED FOR PILOT LIGHT

	<p>Maximum Voltage: 250 V</p> <p>Maximum Power: 1,5 W</p> <p>Terminal capacity: Rigid wire 0.75 - 2.5mm² Flexible cable 0.5 - 1.5mm²</p>
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<p>SXS     </p> <p>VD VM AZ AM BR</p>	<table border="0"> <tr> <td></td> <td>01G</td> <td></td> <td>03G</td> </tr> <tr> <td></td> <td>02G</td> <td></td> <td>04G</td> </tr> </table>		01G		03G		02G		04G	<p>Example of a Block with Green LED 120 V: SXSVD03G</p>
	01G		03G							
	02G		04G							

<p>Example of a Pilot Light with a Block with Green LED 120 V:</p>	 <p>ESIVD SXSVD03G</p>
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Diversity in Applications


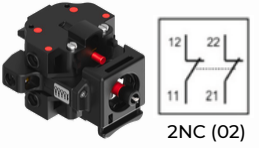
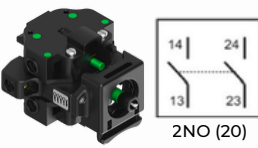































ILLUMINATED PUSH BUTTON




		<table border="0"> <tr> <td></td> <td>EBLVD</td> <td></td> <td>EBLBR</td> </tr> <tr> <td></td> <td>EBLVM</td> <td></td> <td>EBLAM</td> </tr> <tr> <td></td> <td>EBLAZ</td> <td></td> <td></td> </tr> </table>		EBLVD		EBLBR		EBLVM		EBLAM		EBLAZ		
	EBLVD		EBLBR											
	EBLVM		EBLAM											
	EBLAZ													

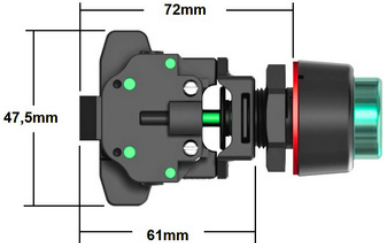
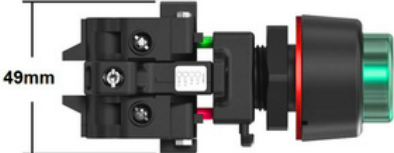
BLOCK WITH LED FOR ILLUMINATED PUSH BUTTON

	<p>Contact Block</p> <p>Maximum Voltagea: 250 V Maximum Power: 1,5 W</p>	<p>Illuminated Push Button</p> <p>Rated voltage (Ui): 500 V Rated current (Ith): 10 A AC15: 230 VCA / 6 A DC13: 24 VDC / 3 A</p>
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<p>C</p>  <p>1NO+1NC (11)</p>	 <p>2NC (02)</p>	 <p>2NO (20)</p>	 <p>1NC (01)</p>	 <p>1NO (10)</p>
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<p>SXS</p> <table border="0"> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>VD</td> <td>VM</td> <td>AZ</td> <td>AM</td> <td>BR</td> </tr> </table>						VD	VM	AZ	AM	BR	<p>Example: 1NO+1NC Contact Block and 120V LED : SXSVD1103G</p>	<table border="0"> <tr> <td></td> <td>01G</td> <td></td> <td>03G</td> </tr> <tr> <td></td> <td>02G</td> <td></td> <td>04G</td> </tr> </table>		01G		03G		02G		04G
																				
VD	VM	AZ	AM	BR																
	01G		03G																	
	02G		04G																	

<p>Example of a Green Illuminated Push Button with 1NO+1NC Contact Block and 120V LED</p>	 <p>EBLVD</p>	 <p>SXSVD1103G</p>	
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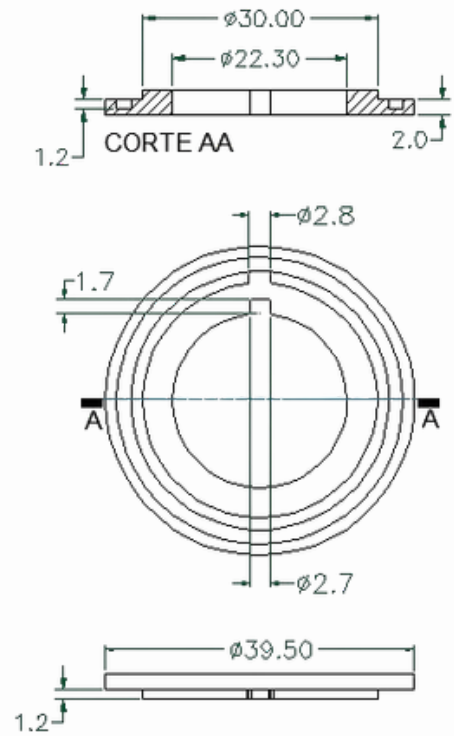
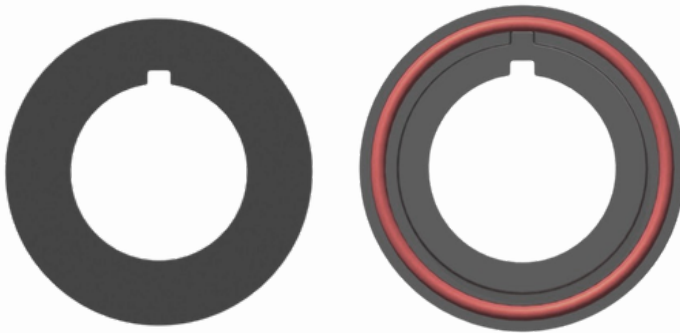
	
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Accessories




Plastic hole reducer ring from
30mm to 22.5mm

CODE: ANELRF






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 www.sermatex.com.br

 www.linkedin.com/in/sermatex

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