

## **ATEX Approved Products**





## Products, industrial branches and end user



#### **Industrial branches**

- Chemical industry
- Petrochemical industry
- Medical and pharmaceutical technology
- Pharmaceutical industry
- Food industry
- Disposal and recyling industry
- Wood-working

#### End user

- Ex-protected plant operators
- Ex-protected plant manufacturers
- Planers and constructing engineer



Ex-protected systems
 manufacturers
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## by BERNSTEIN

#### **ATEX - General Information**

EX versions of the many of the standard BERNSTEIN switches with ATEX approval are also available for applications involving potentially gas and dust explosive atmospheres.

Approvals for gas "ii G" in accordance with DIN EN 60079-XX



Approvals for dust "ii D" in accordance with DIN EN 61241-XX

#### Make use of our Ex protection expertise for your applications.





#### What is ATEX?

ATEX = Atmosphère explosive. The European Directive 94/4/EC governs the production and the circulation of devices and components for explosive atmospheres in the European Union. The IEC Standards harmonized throughout the EU stipulate that ATEX products approved by a certification authority can be used anywhere throughout the EU.

In most aspects the certification authorities of non-European countries such as North America, Russia etc. closely follow ATEXrelevant standards so that various approvals can be acquired worldwide based on an ATEX approval. Corresponding national approvals are available on request.

#### Where are devices with ATEX approval used?

The fields of application for Ex-protected switches include mixing and processing machines in bakeries (flour dust explosion), processing machines in the food industry where spices are mixed (spice dust explosion), sewer manholes, pump stations and sewage treatment plant (explosive gases "fermentation/digester gas"), waste disposal and recycling industry (various sources of dust and gas explosion), automotive industry and wherever paints and lacquers are used (painting booth) in addition to the classic explosion-hazard branches of industry such as the chemical, petrochemical, pharmaceutical industries as well as the coal, gas and oil-producing and processing industries. Mobile equipment and systems such as vacuum cleaners, stacker lift trucks, fans etc. that are used in the above fields of application must exhibit a corresponding ATEX approval. ATEX products are therefore a part of our everyday lives..

#### Who is responsible for what in Ex applications?

The device or component manufacturer must obtain a type approval certificate (ATEX approval) for these devices and components. The machine manufacturer can acquire his system approval based on these approvals and the declaration of conformity.

The manufacturer of a machine or system that is used in Ex applications must obtain a corresponding system approval for the machines it markets. The entire system must be taken into consideration both from a mechanical as well as from an electrical aspect.

In accordance with the ATEX Operator Directive 1999/92/EC (ATEX137), the operator of technical facilities shall be responsible for avoiding or restricting the formation of explosive atmospheres (primary explosion protection), avoiding effective ignition sources (secondary or design explosion protection) and restricting the effect of an explosion to a safe level (tertiary explosion protection).An explosion protection document describing the implemented measures and hazard assessments is to be compiled.

In addition to foot switches and cable pull switches, our current ATEX-certified product range also includes various standard limit switches, limit switches and miniature limit switches.

Customer-specific individual approvals or approvals for switches and components from the BERNSTEIN range not yet certified are available on request.







ATEX







#### Terminal boxes and empty enclosures

Only materials that correspond to the temperature range T6 required for Ex enclosures are used in these enclosures and components. The minimum type of protection rating of all enclosures and screw connections is IP 64, other protection classes available on request. The latching devices on the enclosures are available as captive screw connections. Various CA versions are available with flange plates. All built-in components must conform to the relevant approvals.

### Momentary contact, cable pull and foot switches

An Ex d-certified switching element lies at the core of these Ex-approved switches. It is mounted in the switch enclosures. The mechanical actuator and its installation are certified separately.

The approval of additional actuators and switch enclosures from other series is possible on request.

All switches and momentary contact switches feature one NO contact and one NC contact.

#### Magnetic switches, Namur sensors

The protection against flammable energies is realised by encapsulation. The magnetic switches and Namur sensors are fitted at the factory with up to 7 m long connection cable. The cable is permanently connected to the enclosure and is part of the approval.

All sensors are certified for a maximum ambient temperature of +60 °C.

#### ATEX-approved products for potentially explosive atmospheres

- Ex e, Ex ia and Ex e/ia terminal boxes made from polyester and aluminium
- Ex d limit switches, rope pull switches and foot switches
- Ex mb/Ex tD magnetic switches



## **Explosion protection at a glance**

ll2G	Ex	ia	IIC	T6	TÜV	2008	ATEX	1234	-
Application	Explosion protection		Device group	Tempera- ture class	Inspec- tion authority	Year	As per Directive 94/9/EC	Consecutive number	Additional conditions
ection for gas-e	•							Standard	
	1							Stanuaru	
Ex "d"			formers etc. IE	C60079-1				IEC60079-1	
Ex "p"	Control cabin px = Use in Zo py = Use in Zo	nets one 1, 2 one 1, 2						IEC60079-2	
Ex"q"								IEC60079-5	
Ex "o"		Oil immersion encapsulation Transformers, load resistors			IEC60079-6				
Ex"e"			s, enclosures fc	or installing dev	vices of other p	protection class		IEC60079-7	
Ex "i"	Terminal box ia = Use in Zo ib = Use in Zo	es, control cabinets one 0, 1, 2 one 1, 2	s, sensors, mea	surement and	control equipr	nent		IEC60079-11	
								IEC60079-25	
Ex "n"			n, cannot sparl	k				IEC60079-15	
Ex "m"	Command an ma = Use in Z	nd signalling device Zone 0,1,2	es, sensors, dis،	olay/indicator o	devices			IEC60079-18	
Ex "op"	op is = Intrins op pr = Prote	sically safe optical r cted optical radiati	ion					IEC60079-28	
Classes									
Contact		Foreign bodies		IP 2nd digit	Water		Max. permiss	sible surface	Tempera- ture
No protection		No protection		0	No protectio	n			classes for
Large body pa	irts	Solid object > 5	0 mm	1	Water drippi	ng vertically			
									gases
Finger		Solid object > 1	2.5 mm	2	Water drippi up to 15°	ng at angle	450°		gases T1
Finger Tool > 2.5 mm	1	Solid object > 1 Solid object > 2		2 3	up to 15°	ng at angle d at an angle	450° 300°		-
-	1	Solid object > 2 Solid object > 1	.5 mm mm		up to 15° Water spraye up to 60° Spayed wate	d at an angle r 360°			T1
Tool > 2.5 mm Tool > 1 mm Complete prot	tection	Solid object > 2 Solid object > 1 Dust accumulat	.5 mm mm ion	3 4 5	up to 15° Water spraye up to 60° Spayed water Hose water 3	d at an angle r 360° 60°	300° 200° 135°		T1 T2 T3 T4
Tool > 2.5 mm Tool > 1 mm	tection	Solid object > 2 Solid object > 1	.5 mm mm ion	3 4 5 6	up to 15° Water spraye up to 60° Spayed water Hose water 3 Strong hose	d at an angle r 360° 60° water 360°	300° 200° 135° 100°		T1 T2 T3 T4 T5
Tool > 2.5 mm Tool > 1 mm Complete prot	tection	Solid object > 2 Solid object > 1 Dust accumulat	.5 mm mm ion	3 4 5 6 7	up to 15° Water spraye up to 60° Spayed water Hose water 3 Strong hose Temporary su	d at an angle r 360° 60° water 360°	300° 200° 135° 100° 85°	rouns for gase	T1 T2 T3 T4 T5 T6
Tool > 2.5 mm Tool > 1 mm Complete prot	tection	Solid object > 2 Solid object > 1 Dust accumulat	.5 mm mm ion	3 4 5 6	up to 15° Water spraye up to 60° Spayed water Hose water 3 Strong hose	d at an angle r 360° 60° water 360°	300° 200° 135° 100° 85° <b>Explosion g</b>	roups for gase	T1 T2 T3 T4 T5 T6
Tool > 2.5 mm Tool > 1 mm Complete prot Complete prot	tection tection	Solid object > 2 Solid object > 1 Dust accumulat Dust infiltration	.5 mm mm ion	3 4 5 6 7	up to 15° Water spraye up to 60° Spayed water Hose water 3 Strong hose Temporary su	d at an angle r 360° 60° water 360°	300° 200° 135° 100° 85° <b>Explosion g</b> Group	Typical gas	T1 T2 T3 T4 T5 T6 <b>PS</b> Ignition energy
Tool > 2.5 mm Tool > 1 mm Complete prot Complete prot Complete prot	tection tection ed by 2 safety m	Solid object > 2 Solid object > 1 Dust accumulat Dust infiltration	.5 mm mm ion	3 4 5 6 7	up to 15° Water spraye up to 60° Spayed water Hose water 3 Strong hose Temporary su	d at an angle r 360° 60° water 360°	300° 200° 135° 100° 85° <b>Explosion g</b> Group	Typical gas Methane	T1 T2 T3 T4 T5 T6 <b>is</b> Ignition energy 280 μ
Tool > 2.5 mm Tool > 1 mm Complete prof Complete prof Complete prof I Mining Safety provide Shutdown on	tection tection ed by 2 safety m occurrence of e	Solid object > 2 Solid object > 1 Dust accumulat Dust infiltration	.5 mm mm ion	3 4 5 6 7	up to 15° Water spraye up to 60° Spayed water Hose water 3 Strong hose Temporary su	d at an angle r 360° 60° water 360°	300° 200° 135° 100° 85° <b>Explosion g</b> Group I IIA	Typical gas Methane Propane	T1 T2 T3 T4 T5 T6 <b>is</b> Ignition energy 280 μ > 180 μ
Tool > 2.5 mm Tool > 1 mm Complete prof Complete prof Complete prof I Mining Safety provide Shutdown on oup II, all haza	tection tection ed by 2 safety m occurrence of e irdous areas ex	Solid object > 2 Solid object > 1 Dust accumulat Dust infiltration measures, 2 faults explosive atmosphe ccept mining	.5 mm mm ion ere	3 5 6 7 8	up to 15° Water spraye up to 60° Spayed wate Hose water 3 Strong hose Temporary su Submersion	d at an angle r 360° 60° water 360°	300° 200° 135° 100° 85° <b>Explosion g</b> Group	Typical gas Methane	T1 T2 T3 T4 T5 T6 <b>is</b> Ignition energy 280 μ > 180 μ
Tool > 2.5 mm Tool > 1 mm Complete prof Complete prof Complete prof I Mining Safety provide Shutdown on Oup II, all haza Zone 0	tection tection ed by 2 safety m occurrence of e <b>rdous areas ex</b> Zone 20	Solid object > 2 Solid object > 1 Dust accumulat Dust infiltration measures, 2 faults explosive atmosphe ccept mining Safety provided	.5 mm mm ion ere by 2 safety me	3 4 5 6 7 8 8	up to 15° Water spraye up to 60° Spayed wate Hose water 3 Strong hose Temporary su Submersion	d at an angle r 360° 60° water 360° ibmersion	300° 200° 135° 100° 85° <b>Explosion g</b> Group I IIA	Typical gas Methane Propane	T1 T2 T3 T4 T5 T6 t5 t6 t9 t80 μ > 180 μ 60180 μ
Tool > 2.5 mm Tool > 1 mm Complete prof Complete prof Complete prof I Mining Safety provide Shutdown on Oup II, all haza Zone 0 Zone 1	tection tection ed by 2 safety m occurrence of e <b>rdous areas ex</b> Zone 20 Zone 21	Solid object > 2 Solid object > 1 Dust accumulat Dust infiltration measures, 2 faults explosive atmosphe ccept mining Safety provided Safety in the eve	.5 mm mm ion ere by 2 safety me ent of frequent	3 4 5 6 7 8 easures, 2 fault t equipment m	up to 15° Water spraye up to 60° Spayed wate Hose water 3 Strong hose Temporary su Submersion	d at an angle r 360° 60° water 360° ibmersion	300° 200° 135° 100° <b>Explosion g</b> Group I IIA IIB IIC	Typical gas Methane Propane Ethylene Hydrogen	T1 T2 T3 T4 T5 T6 t5 t6 t9 t80 μ > 180 μ 60180 μ
Tool > 2.5 mm Tool > 1 mm Complete prof Complete prof Complete prof I Mining Safety provide Shutdown on oup II, all haza Zone 0 Zone 1 Zone 2	tection tection ed by 2 safety m occurrence of e <b>rdous areas ex</b> Zone 20 Zone 21 Zone 22	Solid object > 2 Solid object > 1 Dust accumulat Dust infiltration measures, 2 faults explosive atmosphe ccept mining Safety provided	.5 mm mm ion ere by 2 safety me ent of frequent	3 4 5 6 7 8 easures, 2 fault t equipment m	up to 15° Water spraye up to 60° Spayed wate Hose water 3 Strong hose Temporary su Submersion	d at an angle r 360° 60° water 360° ibmersion	300° 200° 135° 100° 85° <b>Explosion g</b> Group I IIA IIB	Typical gas Methane Propane Ethylene Hydrogen	T1 T2 T3 T4 T5 T6 <b>25</b> Ignition energy 280 μ > 180 μ 60180 μ < 60 μ
Tool > 2.5 mm Tool > 1 mm Complete prof Complete prof Complete prof I Mining Safety provide Shutdown on Oup II, all haza Zone 0 Zone 1	tection tection ed by 2 safety m occurrence of e <b>rdous areas ex</b> Zone 20 Zone 21 Zone 22	Solid object > 2 Solid object > 1 Dust accumulat Dust infiltration teasures, 2 faults explosive atmosphe ccept mining Safety provided Safety in the eve Safety in trouble	.5 mm mm ion ere by 2 safety me ent of frequent	3 4 5 6 7 8 easures, 2 fault t equipment m n	up to 15° Water spraye up to 60° Spayed wate Hose water 3 Strong hose Temporary su Submersion	d at an angle r 360° 60° water 360° ibmersion	300° 200° 135° 100° 85° <b>Explosion g</b> Group I IIA IIB IIC <b>Additional c</b>	Typical gas Methane Propane Ethylene Hydrogen conditions No restriction	T1 T2 T3 T4 T5 T6 t5 t6 t9 t180 μ > 180 μ < 60 μ < 60 μ
Tool > 2.5 mm Tool > 1 mm Complete prof Complete prof Complete prof I Mining Safety provide Shutdown on oup II, all haza Zone 0 Zone 1 Zone 2 ies, device grou	tection tection ed by 2 safety m occurrence of e <b>rdous areas ex</b> Zone 20 Zone 21 Zone 22	Solid object > 2 Solid object > 1 Dust accumulat Dust infiltration measures, 2 faults explosive atmosphe ccept mining Safety provided Safety in the eve	.5 mm mm ion ere by 2 safety me ent of frequent	3 4 5 6 7 8 easures, 2 fault t equipment m	up to 15° Water spraye up to 60° Spayed wate Hose water 3 Strong hose Temporary su Submersion	d at an angle r 360° 60° water 360° ibmersion	300° 200° 135° 100° <b>Explosion g</b> Group I IIA IIB IIC	Typical gas Methane Propane Ethylene Hydrogen	T1 T2 T3 T4 T5 T6 t5 t6 t9 t80 μ > 180 μ < 60 μ < 60 μ
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	Application Extion for gased Ex "d" Ex "p" Ex "q" Ex "o" Ex "e" Ex "i" Ex "i" Ex "n" Ex "np" Ex "op" Classes Contact No protection	Application       Explosion protection         ection for gas-explosion haza         Type of prote         Ex "d"       Flameproof e Switching de         Ex "d"       Pressurised e Control cabin px = Use in Z py = Use in Z py = Use in Z pz = Use	ApplicationExplosion protectionProtection classType of protectionExtion for gas-explosion hazardous areasType of protectionEx "d"Flameproof encapsulation Switching devices, motors, transEx "d"Pressurised encapsulation Control cabinets px = Use in Zone 1, 2 py = Use in Zone 1, 2 py = Use in Zone 2Ex "q"Powder-filled encapsulation Transformers, capacitorsEx "q"Increased safety Terminal boxes, control cabinets ia = Use in Zone 0, 1, 2 ib = Use in Zone 0, 1, 2 mm = Use in Zone 1, 2Command and signalling device ma = Use in Zone 0, 1, 2 mm = Use in Zone 1, 2Command and signalling device ma = Use in Zone 0, 1, 2 mm = Use in Zone 1, 2ContactForeign bodiesNo protectionNo protected opt	ApplicationExplosion protectionProtection classDevice groupType of protectionEx "d"Flameproof encapsulation Switching devices, motors, transformers etc. IEEx "d"Pressurised encapsulation Control cabinets px = Use in Zone 1, 2 py = Use in Zone 1, 2 py = Use in Zone 2Ex "q"Powder-filled encapsulation Transformers, capacitorsEx "q"Oil immersion encapsulation Transformers, load resistorsEx "e"Increased safety Terminal boxes, control cabinets, enclosures for ib = Use in Zone 0, 1, 2 ib = Use in Zone 0, 1, 2 ma = Use in Zone 0, 1, 2 ma = Use in Zone 0, 1, 2 mb = Use in Zone 1, 2Ex "op"Optical radiation op is = Intrinsically safe optical radiation op is = Shutdown optical radiation op is +	ApplicationExplosion protectionProtection classDevice groupTempera- ture classaction for gas-explosion hazardous areasEx "d"Flameproof encapsulation Switching devices, motors, transformers etc. IEC60079-1Ex "d"Pressurised encapsulation Control cabinets px = Use in Zone 1, 2 pz = Use in Zone 2Ex "q"Powder-filled encapsulation Transformers, capacitorsEx "q"Oil immersion encapsulation Transformers, load resistorsEx "e"Increased safety Terminal boxes, control cabinets, enclosures for installing device ti b = Use in Zone 1, 2 ib = Use in Zone 1, 2Ex "e"Intrinsically safe Terminal boxes, control cabinets, enclosures for installing device ti b = Use in Zone 0, 1, 2 ib = Use in Zone 0, 1, 2 m = Use in Zon	ApplicationExplosion protectionProtection classDevice groupTempera- ture classInspec- tion authorityection for gas-explosion hazardous areasType of protectionFlameproof encapsulation Switching devices, motors, transformers etc. IEC60079-1Inspec- tionEx "d"Flameproof encapsulation Control cabinets px = Use in Zone 1, 2 py = Use in Zone 2Image: Control cabinets px = Use in Zone 2Image: Control cabinets px = Use in Zone 2Ex "q"Powder-filled encapsulation Transformers, capacitorsImage: Control cabinets px = Use in Zone 2Image: Control cabinets px = Use in Zone 2Ex "q"Oil immersion encapsulation Transformers, load resistorsIncreased safety Terminal boxes, control cabinets, enclosures for installing devices of other p Intrinsically safe Terminal boxes, control cabinets, sensors, measurement and control equipr ia = Use in Zone 1, 2 Intrinsically safe systemsEx "n"Non sparking Systems that, due to their design, cannot sparkEx "op"Optical radiation op is = Intrinsically safe optical radiation op is = Intrinsically safe optical radiation op is = Intrinsically safe optical radiation op is = Shutdown optical radiation op is = Shutd	Application     Explosion protection     Protection class     Device group     Tempera- ture class     Inspec- ture ture class     Inspec- ture authority       extion for gas-explosion hazardous areas     Type of protection     Image: Stress     Image: Stress     Image: Stress       Ex "d"     Flameproof encapsulation Switching devices, motors, transformers etc. IEC60079-1     Image: Stress     Image: Stress       Ex "p"     Pressurised encapsulation Control cabinets px = Use in Zone 1, 2 py = Use in Zone 2     Image: Stress     Image: Stress       Ex "q"     Powder-filled encapsulation Transformers, capacitors     Image: Stress     Image: Stress       Ex "o"     Oil Immersion encapsulation Transformers, coaptions     Image: Stress     Image: Stress       Ex "e"     Increased safety Terminal boxes, control cabinets, enclosures for installing devices of other protection class       Intrinsically safe     Image: Stress     Image: Stress       Ex "n"     Non sparking Systems that, due to their design, cannot spark       Ex "n"     Encapsulation Command and signalling devices, sensors, display/indicator devices ma = Use in Zone 1, 2 mb = Use in Zone 1, 2 mb = Use in Zone 1, 2 mb = Use in Zone 1, 2       Optical radiation op pi = Intrinsically safe optical radiation op pi = Intrinsically safe optical radiation op pi = Shutdown optical radiation op sh = Shutdown optical radiation op sh = Shutdown optical radiation       Optical radiation     Image: Image	Application     Explosion protection     Protection class     Device group     Tempera- ture class     Inspec- tion     Nepret Year     As per Directive 94/9/EC       extion for gas-explosion hazardous areas	Application protection         Protection class         Device group         Tempera- ture (class         Inspec- authority         As per year         As per Directive ya/9/EC         Consecutive number           extion for gas-extination for gas-extination for gas-extination         Temperature (class         Inspec- authority         As per Directive authority         As per Directive gar/9/EC         Consecutive mumber           Ex "d"         Fameproof encapsulation Switching devices, motors, transformers etc. IEC60079-1         IEC60079-2         IEC60079-2           Ex "p"         Pressurised encapsulation Control cabinets px = Use in Zone 1, 2 py = Use in Zone 2         IEC60079-2         IEC60079-2           Ex "q"         Powder-filled encapsulation Transformers, capacitors         IEC60079-2         IEC60079-2           Ex "a"         Intransformers, capacitors         IEC60079-2         IEC60079-1           Ex "a"         Increased safety Terminal boxes, control cabinets, enclosures for installing devices of other protection class         IEC60079-12           Ex "a"         Intrinsically safe Terminal boxes, control cabinets, sensors, measurement and control equipment is a Use in Zone 1, 2         IEC60079-13           Ex "n"         Encapsulation Terminal boxes, control cabinets, sensors, display/indicator devices ma Use in Zone 1, 2         IEC60079-18           Ex "n"         Encapsulation op pr = Protect



## Aluminium and Polyester Blank enclosures CA, CP, CPS



#### **ATEX-U certified standard enclosures**

BERNSTEIN CA enclosures have been tested by an internationally recognised and certified inspection authority and certified through type approval testing for use in areas with potentially explosive dust and gas atmospheres. Used as terminal and control enclosures, the aluminium pressure die-cast and glass-fibre reinforced polyester enclosures are designed to accept corresponding mechanical and electrical equipment. The enclosures come with operating instructions, type identification plate, EU Type Approval Certificate and CE Declaration of Conformity. Either an EPDM or silicone seal can be used. The enclosures can be fitted at the factory with external hinges.

#### **Technical Data**

- Protection class IP 66 to IEC 60529 (special seal)
- Identification
  - 🐼 ll 2G Ex e llC Gb
  - 🔄 II 2D Ex tD A21 IP 65 (CA)
  - 🐼 II 1D Ex ta IIIC Da IP 66
- Impact strength up to CP-230
   as from CP-240
   > 7 joules
- **Operating temperature** 55 °C to + 100 °C (special seal)
- CA
   Enclosura colour

Enclosure colour: RAL 7001 (silver grey) Powder-coating corrosion protection

- CP/CPS Enclosure colour: RAL 7000 (squirrel grey) CP RAL 9005 (jet black) CPS
- UV resistance



## Ordering data Blank enclosures CA, CP, CPS

Туре	External dimension	mm (Inches)	Art.No. with silicone seal	Art.No. with EPDM seal
Aluminum E	Inclosures			
CA-060	58 x 64 x 36	(2.3" x 2.5" x 1.4")	1064005000	1064000000
CA-080	98 x 64 x 36	(3.9" x 2.5" x 1.4")	1084005000	1084000000
CA-100	150 x 64 x 36	(5.9" x 2.5" x 1.4")	1104005000	1104000000
CA-130	75 x 80 x 57	(3.0" x 3.1" x 2.2")	1134005000	1134000000
CA-150	125 x 80 x 57	(4.9" x 3.1" x 2.2")	1154005000	1154000000
CA-170	175 x 89 x 57	(6.9" x 3.5" x 2.2")	1174005000	1174000000
CA-190	250 x 80 x 57	(9.8" x 3.1" x 2.2")	1194005000	119400000
CA-210	122 x 122 x 80	(4.8" x 4.8" x 3.1")	1214005000	1214000000
CA-215	122 x 122 x 90	(4.8" x 4.8" x 3.5")	1214005050	1214000050
CA-220	122 x 122 x 80	(4.8" x 4.8" x 3.1")	1224005000	1224000000
CA-230	220 x 122 x 80	(8.7" x 4.8" x 3.1")	1234005000	123400000
CA-235	220 x 122 x 90	(8.7" x 3.8" x 3.5")	1234005050	1234000050
CA-240	220 x 122 x 80	(8.7" x 4.8" x 3.1")	1244005000	1244000000
CA-250	360 x 122 x 80	(14.2" x 4.8" x 3.1")	1254005000	125400000
CA-270	160 x 160 x 90	(6.3" x 6.3" x 3.5")	1274005000	1274000000
CA-280	160 x 160 x 90	(6.3" x 6.3" x 3.5")	1284005000	1284000000
CA-290	260 x 160 x 90	(10.2" x 6.3" x 3.5")	1294005000	129400000
CA-300	260 x 160 x 90	(10.2" x 6.3" x 3.5")	1304005000	130400000
CA-310	360 x 160 x 90	(14.2" x 6.3" x 3.5")	1314005000	1314000000
CA-330	560 x 160 x 90	(22" x 6.3" x 3.5")	1334005000	133400000
CA-350	200 x 230 x 110	(7.9" x 9.1" x 4.3")	1354005000	1354000000
CA-360	200 x 230 x 110	(7.9" x 9.1" x 7.1")	1364005000	1364000000
CA-370	280 x 230 x 100	(11" x 9.1" x 4.3")	1374005000	1374000000
CA-380	330 x 230 x 110	(13" x 9.1" x 4.3")	1384005000	1384000000
CA-390	330 x 230 x 180	(13" x 9.1" x 7.1")	1394005000	1394000000
CA-390 CA-400	400 x 230 x 110	(15.7" x 9.1" x 4.3")	1404005000	140400000
CA-400	600 x 230 x 110	(13.7 × 9.1 × 4.3 ) (23.6" × 9.1" × 4.3")	1424005000	1424000000
CA-420 CA-450	402,5 x 310 x 110	(15.8" x 12.2" x 4.3")	1454005000	145400000
CA-450 CA-460	402,5 x 310 x 110	(15.8" x 12.2" x 7.1")		146400000
CA-400 CA-470			1464005000	
CA-470 CA-480	600 x 310 x 110 600 x 310 x 180	(23.6" x 12.2" x 4.3") (23.6" x 12.2" x 7.1")	1474005000 1484005000	1474000000 1484000000
CP-140	80 x 75 x 55 80 x 75 x 75 80 x 75 x 75	(3.1" x 3.0" x 2.2") (3.1" x 3.0" x 3.0")	4144005000 4144005050	4144000000 4144000050
CP-140 CP-145	80 x 75 x 55 80 x 75 x 75	(3.1" x 3.0" x 3.0")	4144005050	4144000050
CP-140 CP-145 CP-150	80 x 75 x 55 80 x 75 x 75 110 x 75 x 55	(3.1" x 3.0" x 3.0") (4.3" x 3.0" x 2.2")	4144005050 4154005000	4144000050 4154000000
CP-140 CP-145 CP-150 CP-155	80 x 75 x 55 80 x 75 x 75 110 x 75 x 55 110 x 75 x 75	(3.1" x 3.0" x 3.0") (4.3" x 3.0" x 2.2") (4.3" x 3.0" x 3.0")	4144005050 4154005000 4154005050	414400050 415400000 4154000050
CP-140 CP-145 CP-150 CP-155 CP-170	80 x 75 x 55 80 x 75 x 75 110 x 75 x 55 110 x 75 x 75 110 x 75 x 75 160 x 75 x 55	(3.1" x 3.0" x 3.0") (4.3" x 3.0" x 2.2") (4.3" x 3.0" x 3.0") (6.3" x 3.0" x 2.2")	4144005050 4154005000 4154005050 4174005000	4144000050 4154000000 4154000050 4174000000
CP-140 CP-145 CP-150 CP-155 CP-170 CP-175	80 x 75 x 55 80 x 75 x 75 110 x 75 x 55 110 x 75 x 75	(3.1" x 3.0" x 3.0") (4.3" x 3.0" x 2.2") (4.3" x 3.0" x 3.0")	4144005050 4154005000 4154005050	414400050 415400000 4154000050
CP-140 CP-145 CP-150 CP-155 CP-170 CP-175 CP-175 CP-190	80 x 75 x 55 80 x 75 x 75 110 x 75 x 55 110 x 75 x 75 160 x 75 x 55 160 x 75 x 75 160 x 75 x 55 190 x 75 x 55	(3.1" × 3.0" × 3.0") (4.3" × 3.0" × 2.2") (4.3" × 3.0" × 3.0") (6.3" × 3.0" × 2.2") (6.3" × 3.0" × 3.0") (7.5" × 3.0" × 2.2")	4144005050 4154005000 4154005050 4174005000 4174005050 4194005000	4144000050 415400000 4154000050 4174000000 4174000050 4194000000
CP-140 CP-145 CP-150 CP-155 CP-170 CP-175 CP-175 CP-190 CP-195	80 x 75 x 55 80 x 75 x 75 110 x 75 x 55 110 x 75 x 55 160 x 75 x 55 160 x 75 x 55 190 x 75 x 55 190 x 75 x 55	$\begin{array}{c} (3.1" \times 3.0" \times 3.0") \\ (4.3" \times 3.0" \times 2.2") \\ (4.3" \times 3.0" \times 2.2") \\ (6.3" \times 3.0" \times 3.0") \\ (6.3" \times 3.0" \times 3.0") \\ (7.5" \times 3.0" \times 2.2") \\ (7.5" \times 3.0" \times 2.2") \\ (7.5" \times 3.0" \times 3.0") \end{array}$	4144005050 4154005000 4154005050 4174005000 4174005050	4144000050 4154000000 4154000050 4174000000 4174000050
CP-140 CP-145 CP-150 CP-155 CP-170 CP-175 CP-190 CP-195 CP-220	80 x 75 x 55 80 x 75 x 75 110 x 75 x 55 160 x 75 x 75 160 x 75 x 55 160 x 75 x 75 190 x 75 x 55 190 x 75 x 75 190 x 75 x 75 122 x 120 x 90	(3.1" × 3.0" × 3.0") (4.3" × 3.0" × 2.2") (4.3" × 3.0" × 2.2") (6.3" × 3.0" × 3.0") (6.3" × 3.0" × 3.0") (7.5" × 3.0" × 3.0") (7.5" × 3.0" × 3.0") (4.8" × 4.7" × 3.5")	4144005050 4154005000 4154005050 4174005050 4174005050 4194005000 4194005050	4144000050 415400000 4154000050 4174000000 4174000050 4194000000 4194000050
CP-140 CP-145 CP-150 CP-155 CP-170 CP-175 CP-190 CP-195 CP-220 CP-240	80 x 75 x 55 80 x 75 x 75 110 x 75 x 55 100 x 75 x 55 160 x 75 x 55 160 x 75 x 75 190 x 75 x 55 190 x 75 x 55 190 x 75 x 75 122 x 120 x 90 220 x 120 x 90	$\begin{array}{c} (3.1'' \times 3.0'' \times 3.0'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (7.5'' \times 3.0'' \times 2.2'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (4.8'' \times 4.7'' \times 3.5'') \\ (8.7'' \times 4.7'' \times 3.5'') \end{array}$	4144005050 4154005000 4154005050 4174005000 4174005050 4194005000 4194005050 4224005000 4244005000	4144000050 415400000 4154000050 4174000000 4174000050 4194000000 4194000050 4224000000 4244000000
CP-140 CP-145 CP-150 CP-155 CP-170 CP-175 CP-190 CP-195 CP-220 CP-220 CP-240 CP-280	80 x 75 x 55 80 x 75 x 75 110 x 75 x 75 110 x 75 x 55 160 x 75 x 55 160 x 75 x 55 190 x 75 x 55 190 x 75 x 55 122 x 120 x 90 220 x 120 x 90 160 x 160 x 90	(3.1" × 3.0" × 3.0") (4.3" × 3.0" × 2.2") (4.3" × 3.0" × 2.2") (6.3" × 3.0" × 3.0") (6.3" × 3.0" × 3.0") (7.5" × 3.0" × 3.0") (7.5" × 3.0" × 3.0") (4.8" × 4.7" × 3.5")	4144005050 4154005000 4154005050 4174005050 4174005050 4194005050 4194005050 4224005000 4244005000	4144000050 415400000 4154000050 4174000000 4174000050 4194000000 4194000050 4224000000
CP-140 CP-145 CP-155 CP-155 CP-170 CP-175 CP-190 CP-195 CP-200 CP-220 CP-240 CP-280 CP-280 CP-300	80 x 75 x 55 80 x 75 x 75 110 x 75 x 75 110 x 75 x 55 160 x 75 x 55 160 x 75 x 55 190 x 75 x 55 190 x 75 x 55 190 x 75 x 75 122 x 120 x 90 220 x 120 x 90 160 x 160 x 90 260 x 160 x 90	$\begin{array}{c} (3.1'' \times 3.0'' \times 3.0'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (4.3'' \times 3.0'' \times 3.0'') \\ (5.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (8.7'' \times 4.7'' \times 3.5'') \\ (8.7'' \times 4.7'' \times 3.5'') \\ (6.3'' \times 6.3'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \end{array}$	4144005050 4154005000 4154005050 4174005000 4174005050 4194005050 4194005050 4224005000 4284005000 4304005000	4144000050 415400000 4154000050 417400000 4174000050 4194000050 4194000050 4224000000 4284000000 430400000
CP-140 CP-145 CP-150 CP-155 CP-170 CP-175 CP-190 CP-195 CP-220 CP-220 CP-240 CP-280 CP-280 CP-300 CP-320	$80 \times 75 \times 55$ $80 \times 75 \times 75$ $110 \times 75 \times 55$ $110 \times 75 \times 55$ $160 \times 75 \times 55$ $160 \times 75 \times 55$ $190 \times 75 \times 55$ $190 \times 75 \times 75$ $122 \times 120 \times 90$ $220 \times 120 \times 90$ $260 \times 160 \times 90$ $360 \times 160 \times 90$	$\begin{array}{c} (3.1'' \times 3.0'' \times 3.0'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (5.3'' \times 3.0'' \times 2.2'') \\ (7.5'' \times 3.0'' \times 2.2'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (4.8'' \times 4.7'' \times 3.5'') \\ (8.7'' \times 4.7'' \times 3.5'') \\ (6.3'' \times 6.3'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (14.2'' \times 6.3'' \times 3.5'') \end{array}$	4144005050 4154005000 4154005050 4174005000 4174005050 4194005050 4194005050 4224005000 4224005000 4284005000 4304005000 4324005000	4144000050 415400000 4154000050 417400000 4174000050 4194000000 4194000050 4224000000 4224000000 4284000000 4304000000 4324000000
CP-140 CP-145 CP-150 CP-155 CP-170 CP-175 CP-190 CP-195 CP-220 CP-220 CP-240 CP-280 CP-280 CP-300 CP-320 CP-330	$80 \times 75 \times 55$ $80 \times 75 \times 75$ $110 \times 75 \times 55$ $110 \times 75 \times 55$ $160 \times 75 \times 55$ $160 \times 75 \times 55$ $190 \times 75 \times 55$ $190 \times 75 \times 75$ $122 \times 120 \times 90$ $220 \times 120 \times 90$ $160 \times 160 \times 90$ $360 \times 160 \times 90$ $560 \times 160 \times 90$	$\begin{array}{c} (3.1'' \times 3.0'' \times 3.0'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (7.5'' \times 3.0'' \times 2.2'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (4.8'' \times 4.7'' \times 3.5'') \\ (8.7'' \times 4.7'' \times 3.5'') \\ (6.3'' \times 6.3'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (14.2'' \times 6.3'' \times 3.5'') \\ (22.0'' \times 6.3'' \times 3.5'') \end{array}$	4144005050 4154005000 4154005050 4174005050 4174005050 4194005050 4194005000 4224005000 4284005000 4304005000 4324005000 4324005000	4144000050 415400000 4154000050 4174000050 4174000050 419400000 419400000 4224000000 4284000000 4304000000 4324000000 4324000000
CP-140 CP-145 CP-145 CP-150 CP-155 CP-170 CP-175 CP-190 CP-195 CP-220 CP-240 CP-280 CP-300 CP-300 CP-330 CP-370	80 x 75 x 55 80 x 75 x 75 110 x 75 x 75 160 x 75 x 75 160 x 75 x 75 160 x 75 x 55 190 x 75 x 75 190 x 75 x 75 122 x 120 x 90 220 x 120 x 90 160 x 160 x 90 260 x 160 x 90 560 x 160 x 90 255 x 250 x 120	$\begin{array}{c} (3.1'' \times 3.0'' \times 3.0'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 3.0'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (4.8'' \times 4.7'' \times 3.5'') \\ (8.7'' \times 4.7'' \times 3.5'') \\ (8.7'' \times 4.7'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (22.0'' \times 6.3'' \times 3.5'') \\ (10'' \times 9.8'' \times 4.7'') \end{array}$	4144005050 4154005000 4154005050 4174005050 4174005050 4194005000 4194005000 4224005000 4224005000 4304005000 4334005000 4334005000	4144000050 415400000 4154000050 4174000050 4174000050 419400000 419400000 4224000000 4224000000 4284000000 4304000000 4334000000 4334000000
CP-140 CP-145 CP-150 CP-155 CP-170 CP-175 CP-190 CP-195 CP-220 CP-240 CP-280 CP-280 CP-320 CP-320 CP-320 CP-330 CP-370 CP-370 CP-370 CP-400	80 x 75 x 55 80 x 75 x 75 110 x 75 x 75 110 x 75 x 75 160 x 75 x 75 160 x 75 x 75 190 x 75 x 75 190 x 75 x 75 122 x 120 x 90 220 x 120 x 90 160 x 160 x 90 260 x 160 x 90 250 x 160 x 90 255 x 250 x 120	$\begin{array}{c} (3.1'' \times 3.0'' \times 3.0'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 3.0'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (4.8'' \times 4.7'' \times 3.5'') \\ (8.7'' \times 4.7'' \times 3.5'') \\ (6.3'' \times 6.3'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (14.2'' \times 6.3'' \times 3.5'') \\ (12.0'' \times 6.3'' \times 3.5'') \\ (10'' \times 9.8'' \times 4.7'') \\ (15.7'' \times 9.8'' \times 4.7'') \end{array}$	4144005050 4154005000 4154005050 4174005000 4174005000 4194005000 4194005000 4224005000 4224005000 4284005000 4304005000 4334005000 4374005000	4144000050 415400000 415400000 417400000 4174000050 419400000 419400000 422400000 422400000 428400000 430400000 432400000 433400000 437400000
CP-140 CP-145 CP-155 CP-155 CP-170 CP-175 CP-190 CP-195 CP-220 CP-240 CP-280 CP-280 CP-300 CP-320 CP-320 CP-320 CP-370 CP-370 CP-370 CP-450	80 x 75 x 55 80 x 75 x 75 110 x 75 x 75 110 x 75 x 55 160 x 75 x 75 160 x 75 x 55 190 x 75 x 55 190 x 75 x 55 122 x 120 x 90 220 x 120 x 90 160 x 160 x 90 360 x 160 x 90 360 x 160 x 90 255 x 250 x 120 400 x 405 x 120	$\begin{array}{c} (3.1'' \times 3.0'' \times 3.0'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (7.5'' \times 3.0'' \times 2.2'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (4.8'' \times 4.7'' \times 3.5'') \\ (6.3'' \times 6.3'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (14.2'' \times 6.3'' \times 3.5'') \\ (12.0'' \times 6.3'' \times 3.5'') \\ (15.7'' \times 9.8'' \times 4.7'') \\ (15.7'' \times 9.8'' \times 4.7'') \\ (15.7'' \times 15.9'' \times 4.7'') \end{array}$	4144005050 4154005000 4154005000 4174005000 4174005000 4194005000 4194005000 4224005000 4224005000 4284005000 4324005000 4334005000 4334005000 4374005000	4144000050 415400000 415400000 417400000 4174000050 419400000 419400000 422400000 422400000 422400000 432400000 432400000 433400000 437400000 437400000
CP-140 CP-145 CP-145 CP-150 CP-155 CP-170 CP-175 CP-200 CP-200 CP-240 CP-280 CP-300 CP-300 CP-320 CP-330 CP-370 CP-370 CP-400 CP-450 CP-460 <b>Polyester En</b>	$80 \times 75 \times 55$ $80 \times 75 \times 75$ $110 \times 75 \times 75$ $110 \times 75 \times 75$ $160 \times 75 \times 75$ $160 \times 75 \times 55$ $160 \times 75 \times 55$ $190 \times 75 \times 55$ $190 \times 75 \times 75$ $122 \times 120 \times 90$ $220 \times 120 \times 90$ $160 \times 160 \times 90$ $260 \times 160 \times 90$ $255 \times 250 \times 120$ $400 \times 250 \times 120$ $400 \times 405 \times 120$ $400 \times 405 \times 165$ <b>closures (Black)</b>	$\begin{array}{c} (3.1'' \times 3.0'' \times 3.0'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 3.0'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (4.8'' \times 4.7'' \times 3.5'') \\ (8.7'' \times 4.7'' \times 3.5'') \\ (6.3'' \times 6.3'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (14.2'' \times 6.3'' \times 3.5'') \\ (10'' \times 9.8'' \times 4.7'') \\ (15.7'' \times 15.9'' \times 4.7'') \\ (15.7'' \times 15.9'' \times 6.5'') \end{array}$	4144005050 4154005000 4154005050 4174005050 4174005050 4194005000 4224005000 4224005000 4284005000 4304005000 4334005000 4374005000 4454005000 4464005000	4144000050 415400000 415400000 417400000 4174000050 419400000 419400000 422400000 422400000 428400000 430400000 433400000 433400000 437400000 445400000 445400000
CP-140 CP-145 CP-145 CP-150 CP-155 CP-170 CP-175 CP-200 CP-200 CP-240 CP-280 CP-280 CP-320 CP-320 CP-320 CP-320 CP-330 CP-370 CP-370 CP-400 CP-450 CP-460 <b>Polyester En</b> CPS-140	80 x 75 x 55 80 x 75 x 75 110 x 75 x 75 110 x 75 x 55 160 x 75 x 75 160 x 75 x 55 190 x 75 x 55 190 x 75 x 55 122 x 120 x 90 220 x 120 x 90 160 x 160 x 90 260 x 160 x 90 256 x 160 x 90 255 x 250 x 120 400 x 250 x 120 400 x 405 x 120	$\begin{array}{c} (3.1'' \times 3.0'' \times 3.0'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 3.0'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (4.8'' \times 4.7'' \times 3.5'') \\ (8.7'' \times 4.7'' \times 3.5'') \\ (6.3'' \times 6.3'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (12.0'' \times 6.3'' \times 3.5'') \\ (10'' \times 9.8'' \times 4.7'') \\ (15.7'' \times 15.9'' \times 4.7'') \\ (15.7'' \times 15.9'' \times 4.7'') \\ (15.7'' \times 15.9'' \times 6.5'') \\ \end{array}$	4144005050 4154005000 4154005000 4174005000 4174005000 4194005000 4194005000 4224005000 4224005000 4284005000 4324005000 4334005000 4334005000 4374005000	4144000050 415400000 415400000 417400000 417400000 419400000 419400000 422400000 422400000 428400000 432400000 433400000 4337400000 437400000 445400000
CP-140 CP-145 CP-145 CP-150 CP-155 CP-170 CP-175 CP-190 CP-195 CP-220 CP-240 CP-280 CP-280 CP-320 CP-320 CP-320 CP-330 CP-320 CP-330 CP-370 CP-370 CP-460 <b>Polyester En</b> CPS-140	$80 \times 75 \times 55$ $80 \times 75 \times 75$ $110 \times 75 \times 75$ $110 \times 75 \times 75$ $160 \times 75 \times 75$ $160 \times 75 \times 55$ $160 \times 75 \times 55$ $190 \times 75 \times 55$ $190 \times 75 \times 75$ $122 \times 120 \times 90$ $220 \times 120 \times 90$ $160 \times 160 \times 90$ $260 \times 160 \times 90$ $255 \times 250 \times 120$ $400 \times 250 \times 120$ $400 \times 405 \times 120$ $400 \times 405 \times 165$ <b>closures (Black)</b>	$\begin{array}{c} (3.1'' \times 3.0'' \times 3.0'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 3.0'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (4.8'' \times 4.7'' \times 3.5'') \\ (8.7'' \times 4.7'' \times 3.5'') \\ (6.3'' \times 6.3'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (14.2'' \times 6.3'' \times 3.5'') \\ (10'' \times 9.8'' \times 4.7'') \\ (15.7'' \times 15.9'' \times 4.7'') \\ (15.7'' \times 15.9'' \times 6.5'') \end{array}$	4144005050 4154005000 4154005050 4174005050 4174005050 4194005000 4224005000 4224005000 4284005000 4304005000 4334005000 4374005000 4454005000 4464005000	4144000050 415400000 415400000 417400000 4174000050 419400000 419400000 422400000 422400000 428400000 430400000 433400000 433400000 437400000 445400000 445400000
CP-140 CP-145 CP-150 CP-155 CP-170 CP-175 CP-190 CP-200 CP-240 CP-240 CP-240 CP-240 CP-280 CP-300 CP-300 CP-300 CP-300 CP-300 CP-300 CP-300 CP-450 CP-460 <b>POlyester En</b> CP5-140 CP5-145	$80 \times 75 \times 55$ $80 \times 75 \times 75$ $110 \times 75 \times 55$ $110 \times 75 \times 75$ $160 \times 75 \times 75$ $160 \times 75 \times 55$ $160 \times 75 \times 55$ $190 \times 75 \times 55$ $190 \times 75 \times 75$ $122 \times 120 \times 90$ $220 \times 120 \times 90$ $160 \times 160 \times 90$ $260 \times 160 \times 90$ $260 \times 160 \times 90$ $255 \times 250 \times 120$ $400 \times 250 \times 120$ $400 \times 405 \times 120$ $400 \times 405 \times 165$ <b>closures (Black)</b> $80 \times 75 \times 55$	$\begin{array}{c} (3.1'' \times 3.0'' \times 3.0'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 3.0'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (4.8'' \times 4.7'' \times 3.5'') \\ (8.7'' \times 4.7'' \times 3.5'') \\ (6.3'' \times 6.3'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (12.0'' \times 6.3'' \times 3.5'') \\ (10'' \times 9.8'' \times 4.7'') \\ (15.7'' \times 15.9'' \times 4.7'') \\ (15.7'' \times 15.9'' \times 4.7'') \\ (15.7'' \times 15.9'' \times 6.5'') \\ \end{array}$	4144005050 4154005000 4154005050 4174005000 4174005050 4194005000 4224005000 4224005000 4284005000 4324005000 4334005000 4374005000 4454005000 4454005000	4144000050 415400000 415400000 417400000 417400000 419400000 419400000 422400000 422400000 428400000 432400000 433400000 4337400000 437400000 445400000
CP-140 CP-145 CP-150 CP-155 CP-175 CP-170 CP-190 CP-190 CP-220 CP-220 CP-280 CP-280 CP-280 CP-300 CP-300 CP-300 CP-300 CP-300 CP-300 CP-300 CP-300 CP-450 CP-460 CP-450 CP-460 CP-5140 CP5-145 CP5-150	$80 \times 75 \times 55$ $80 \times 75 \times 75$ $110 \times 75 \times 75$ $110 \times 75 \times 55$ $160 \times 75 \times 55$ $160 \times 75 \times 55$ $190 \times 75 \times 55$ $190 \times 75 \times 75$ $122 \times 120 \times 90$ $220 \times 120 \times 90$ $160 \times 160 \times 90$ $260 \times 160 \times 90$ $255 \times 250 \times 120$ $400 \times 250 \times 120$ $400 \times 405 \times 120$ $400 \times 405 \times 165$ <b>closures (Black)</b> $80 \times 75 \times 55$ $80 \times 75 \times 75$	$\begin{array}{c} (3.1'' \times 3.0'' \times 3.0'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (5.3'' \times 3.0'' \times 2.2'') \\ (7.5'' \times 3.0'' \times 2.2'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (4.8'' \times 4.7'' \times 3.5'') \\ (8.7'' \times 4.7'' \times 3.5'') \\ (6.3'' \times 6.3'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (12.0'' \times 6.3'' \times 3.5'') \\ (14.2'' \times 6.3'' \times 3.5'') \\ (15.7'' \times 15.9'' \times 4.7'') \\ (3.1'' \times 3.0'' \times 2.2'') \\ (3.1'' \times 3.0'' \times 2.0'') \end{array}$	4144005050 4154005000 4154005000 4174005000 4174005000 4194005000 4224005000 4224005000 4284005000 4324005000 4334005000 4334005000 4374005000 4454005000 5144005000 5144005000	4144000050 415400000 415400000 4174000050 4174000050 419400000 419400000 422400000 422400000 428400000 432400000 433400000 437400000 437400000 514400000 514400000 514400000
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CP-140 CP-145 CP-145 CP-155 CP-170 CP-175 CP-190 CP-200 CP-220 CP-240 CP-280 CP-300 CP-320 CP-300 CP-320 CP-300 CP-370 CP-400 CP-400 CP-460 <b>POlyester En</b> CPS-140 CPS-145 CPS-155 CPS-175 CPS-175 CPS-175 CPS-190 CPS-195 CPS-220 CPS-220 CPS-220 CPS-280 CPS-280 CPS-280 CPS-300	$80 \times 75 \times 55$ $80 \times 75 \times 75$ $110 \times 75 \times 75$ $110 \times 75 \times 75$ $160 \times 75 \times 75$ $160 \times 75 \times 75$ $190 \times 75 \times 75$ $190 \times 75 \times 75$ $122 \times 120 \times 90$ $220 \times 120 \times 90$ $160 \times 160 \times 90$ $260 \times 160 \times 90$ $260 \times 160 \times 90$ $255 \times 250 \times 120$ $400 \times 250 \times 120$ $400 \times 405 \times 155$ $80 \times 75 \times 55$ $80 \times 75 \times 75$ $110 \times 75 \times 55$ $160 \times 75 \times 55$ $160 \times 75 \times 55$ $160 \times 75 \times 55$ $190 \times 75 \times 55$ $190 \times 75 \times 75$ $122 \times 120 \times 90$ $220 \times 120 \times 90$ $160 \times 160 \times 90$	$\begin{array}{c} (3.1'' \times 3.0'' \times 3.0'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (8.1'' \times 4.7'' \times 3.5'') \\ (8.7'' \times 4.7'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (10.3'' \times 3.0'' \times 2.2'') \\ (3.1'' \times 3.0'' \times 2.2'') \\ (3.1'' \times 3.0'' \times 2.2'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 3.0'') \\ (6.3'' \times 3.0'' \times 3.0'') \\ (4.3'' \times 3.0'' \times 3.0'') \\ (4.3'' \times 3.0'' \times 3.0'') \\ (4.3'' \times 4.7'' \times 3.5'') \\ (6.3'' \times 6.3'' \times 3.5'') \\ (6.3'' \times 6.3'' \times 3.5'') \\ (6.3'' \times 6.3'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ \end{array}$	4144005050 4154005000 4174005050 4174005050 4174005050 4194005050 4224005000 4224005000 4284005000 4304005000 4324005000 4324005000 4334005000 4374005000 4454005000 5144005050 5154005000 5154005050 5174005050 5174005050 5174005050 5194005000 5224005000 5224005000 5284005000	4144000050 415400000 415400000 4174000050 4174000050 419400000 422400000 422400000 422400000 432400000 432400000 432400000 432400000 432400000 432400000 514400000 515400000 515400000 5154000050 5174000050 5174000050 5174000050 519400000 519400000 522400000 522400000 522400000 522400000 530400000
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CP-140 CP-145 CP-145 CP-150 CP-155 CP-170 CP-175 CP-190 CP-220 CP-240 CP-240 CP-280 CP-300 CP-300 CP-320 CP-300 CP-370 CP-460 <b>POlyester En</b> CP-460 <b>POlyester En</b> CPS-145 CPS-150 CPS-155 CPS-150 CPS-155 CPS-170 CPS-175 CPS-190 CPS-195 CPS-220 CPS-240 CPS-280 CPS-280 CPS-320 CPS-320 CPS-320 CPS-330	$\begin{array}{c} 80 \times 75 \times 55 \\ 80 \times 75 \times 75 \\ 110 \times 75 \times 55 \\ 110 \times 75 \times 55 \\ 160 \times 75 \times 55 \\ 160 \times 75 \times 55 \\ 160 \times 75 \times 55 \\ 190 \times 75 \times 55 \\ 190 \times 75 \times 75 \\ 122 \times 120 \times 90 \\ 220 \times 120 \times 90 \\ 220 \times 120 \times 90 \\ 260 \times 160 \times 90 \\ 360 \times 160 \times 90 \\ 255 \times 250 \times 120 \\ 400 \times 405 \times 155 \\ 110 \times 75 \times 55 \\ 110 \times 75 \times 55 \\ 110 \times 75 \times 55 \\ 160 \times 75 \times 55 \\ 190 \times 75 \times 55 \\ 122 \times 120 \times 90 \\ 220 \times 120 \times 90 \\ 160 \times 160 \times 90 \\ 360 \times 160 \times 90 \\ 360 \times 160 \times 90 \\ 360 \times 160 \times 90 \\ 560 \times 160 \times 90 \\ \end{array}$	$\begin{array}{c} (3.1'' \times 3.0'' \times 3.0'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (7.5'' \times 3.0'' \times 2.2'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (4.8'' \times 4.7'' \times 3.5'') \\ (8.7'' \times 4.7'' \times 3.5'') \\ (6.3'' \times 6.3'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (12.0'' \times 6.3'' \times 3.5'') \\ (12.0'' \times 6.3'' \times 3.5'') \\ (10'' \times 9.8'' \times 4.7'') \\ (15.7'' \times 15.9'' \times 4.7'') \\ (15.7'' \times 15.9'' \times 4.7'') \\ (15.7'' \times 15.9'' \times 6.5'') \\ \hline \\ \hline \\ (3.1'' \times 3.0'' \times 2.2'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 3.0'') \\ (4.8'' \times 4.7'' \times 3.5'') \\ (8.7'' \times 4.7'' \times 3.5'') \\ (8.7'' \times 4.7'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (12.0'' \times 6.3'' \times 3.5'') \\ (22.0'' \times 6.3'' \times 3.5'') \\ (22.0'' \times 6.3'' \times 3.5'') \\ \end{array}$	4144005050 4154005000 4154005050 4174005050 4174005050 4194005050 4224005000 4224005000 4224005000 4304005000 4304005000 4324005000 4334005000 4374005000 5144005000 515400500 5154005050 5154005050 5154005050 5174005050 5174005050 5194005000 5194005000 5224005000 5224005000 5304005000 5324005000 5324005000 5324005000 5324005000	4144000050 415400000 415400000 417400000 4174000050 419400000 419400000 422400000 422400000 422400000 433400000 433400000 433400000 433400000 514400000 515400000 515400000 515400000 515400000 515400000 519400000 519400000 519400000 530400000 532400000 533400000 533400000
CP-140 CP-145 CP-145 CP-150 CP-155 CP-170 CP-175 CP-190 CP-220 CP-240 CP-280 CP-300 CP-300 CP-300 CP-300 CP-300 CP-450 CP-460 <b>POlyester En</b> CPS-140 CPS-140 CPS-145 CPS-155 CPS-175 CPS-175 CPS-175 CPS-175 CPS-175 CPS-190 CPS-280 CPS-280 CPS-280 CPS-300 CPS-320 CPS-300 CPS-370	$\begin{array}{c} 80 \times 75 \times 55 \\ 80 \times 75 \times 75 \\ 110 \times 75 \times 55 \\ 110 \times 75 \times 55 \\ 110 \times 75 \times 55 \\ 160 \times 75 \times 55 \\ 190 \times 75 \times 55 \\ 190 \times 75 \times 55 \\ 190 \times 75 \times 75 \\ 122 \times 120 \times 90 \\ 220 \times 120 \times 90 \\ 260 \times 160 \times 90 \\ 360 \times 155 \\ 160 \times 75 \times 55 \\ 110 \times 75 \times 55 \\ 190 \times 75 \times 75 \\ 122 \times 120 \times 90 \\ 220 \times 120 \times 90 \\ 160 \times 160 \times 90 \\ 260 \times 160 \times 90 \\ 360 \times 160 \times 90 \\ 350 \times 160$	$\begin{array}{c} (3.1'' \times 3.0'' \times 3.0'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 3.0'' \times 2.2'') \\ (7.5'' \times 3.0'' \times 2.2'') \\ (7.5'' \times 3.0'' \times 2.2'') \\ (7.5'' \times 3.0'' \times 3.0'') \\ (4.8'' \times 4.7'' \times 3.5'') \\ (8.7'' \times 4.7'' \times 3.5'') \\ (6.3'' \times 6.3'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (15.7'' \times 15.9'' \times 4.7'') \\ (15.7'' \times 15.9'' \times 3.0'') \\ (4.3'' \times 3.0'' \times 2.2'') \\ (6.3'' \times 4.7'' \times 3.5'') \\ (8.7'' \times 4.7'' \times 3.5'') \\ (8.7'' \times 4.7'' \times 3.5'') \\ (10.2'' \times 6.3'' \times 3.5'') \\ (10'' \times 9.8'' \times 4.7'') \\ \end{array}$	4144005050 4154005000 4154005050 4174005050 4174005050 4194005000 4194005000 4224005000 4224005000 4304005000 4324005000 4324005000 4334005000 4374005000 5144005000 5144005050 5154005050 5154005050 5154005050 5154005050 5154005050 5154005050 5194005050 5194005050 5224005000 5224005000 5334005000 5334005000 5334005000	4144000050 415400000 415400000 4174000050 4174000050 419400000 422400000 422400000 430400000 430400000 432400000 433400000 433400000 437400000 514400000 514400000 515400000 515400000 515400050 515400000 515400000 519400000 519400000 522400000 522400000 530400000 533400000 533400000 533400000
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## **Aluminium and polyester terminal enclosures**

The ATEX standard housings of the CA and CP series are designed as fully machined and assembled connection and wiring housings for use in **zones 1, 2 and 22**. They are machined and assembled according to the customer's needs and wishes. A combination of terminals and cable glands of various manufacturers is possible.



All common connecting terminals and cable glands can be combined.

- Screw terminals
- Direct push in terminals
- Wire piercing clamps
- Quick connect push terminals
- Single screw-type metal or plastic glands
- Multiple screw-type metal or plastic glands
- Special screw type glands for ribbon cables

The housings are designed in **enhanced safety and intrinsic safety protection** types or a combination of both.

A protection type up to IP 66 in accordance with ISO 60529 is possible depending on the seal. The operating temperature ranges from -55 °C to +80 °C depending on the version.

All sizes of the empty housings are available as **assembled** housings. Either an earthing rail or an earthing clamp is used as an earth connection.



## Accessories

Cable gland, plastic M12-M	63	
e 9 🔮	Serie ECDEP (Standard)	<ul> <li>−20 °C to +80 °C, PA6</li> <li>IP 66/68, Ex e and Ex i</li> </ul>
Cable glands, metal M12-M	63	
	Serie EURO-Top X (Standard)	● −20 °C to +80 °C, MS ● IP 66/68, Ex e
Screw terminals		
	TS15 (Standard) TS35 (Standard)	<ul> <li>MBK 2,5 / AKZ 2,5</li> <li>UT 2,5 / WDU 2,5</li> </ul>
Mounting plates		
	galvanised steel laminated paper	<ul> <li>as from CP-370/CA</li> <li>up to CP-320</li> </ul>
External mounting brackets	5	
	for mounting without opening the covers	stainless steal
Mounting rails		
	TS-35 TS-15	<ul> <li>as from CA-210/CP-220</li> <li>up to CA-190/CP-195</li> </ul>
Earthing bars		
Constanting of the second s	as option to PE terminals	<ul> <li>solid CU earthing</li> <li>as from CA-210/CP-220</li> </ul>



## Monitor housings for zone 2/22

To enable the use of controllers and operating units in explosive areas of **zones 2 and 22**, monitor and controller housings of the CC-4000 series, CC-800 series and the CA and CP series with customised assemblies can be used.





#### Zone 22

For operation in **zone 22** (Dust 3D) the housings are designed to ensure explosion protection type tc (pro-tection by housing). The basic preconditions for this are:

- Enclosure and suspension system protection class IP 6x
- All add-on parts with type examination certificates or rather CE declaration of conformity for zone 22
- Max. permissible surface temperature +80 °C
- The assembly of all externally accessible parts at BERNSTEIN AG
- Issuing of a manufacturer declaration / CE declaration of conformity for the complete housing by BERNSTEIN AG
- Documentation and monitored production by ATEX-QA

#### Zone 2

For operation in **zone 2** (Gas 3G) the housings are designed to ensure explosion protection type Ex nA (non-sparking device) and/or Ex i (intrinsic safety). The basic preconditions for this are:

- Enclosure and suspension system protection class min. IP 54
- All add-on and built-in parts with type examination certificates or CE declaration of conformity for zone 2



## Sensors for potentially explosive atmospheres

BERNSTEIN offers a wide range of sensors for monitoring and controlling machines in areas with a risk of explosion. They include magnetic switches with reed contact, inductive NAMUR sensors and inductive sensors with switching output. The range of BERNSTEIN include many designs and sizes.



#### Technical Data Magnetic Switches

- Operating voltage range max. 250 V DC
- Output current max. 1 A
- Ambient temperature –20 °C to +60 °C
- Protection class IP 66
- Cable 3 x 0,75 mm<sup>2</sup>
- Red, PA enclosure
- Suitable for zones 1, 2, 21, 22 (2G/2D)



## **Technical Data Sensors**

Туре	Article number ATEX	Sensor type
MAK-1513-LEX-3	6316315001	Magnetic switch
MAK-1513-LEX-1	6316315308	Magnetic switch
MAK-1513-LEX-7	6316315344	Magnetic switch
MAK-1513-LEX-10	6316315654	Magnetic switch
KIB-M05EA/001-2G	6521699002	NAMUR sensor M5 flush
KIB-M08EA/1,5-2G	6521601003	NAMUR sensor M8 flush
KIB-M12EA/002-2G	6521624004	NAMUR sensor M12 flush
KIB-M18EA/005-2G	6521626005	NAMUR sensor M18 flush
KIB-M30EA/010-2G	6521699006	NAMUR sensor M30 flush
KIN-M08EA/002-2G	6521601007	NAMUR sensor M8 non-flush
KIN-M12EA/004-2G	6521625008	NAMUR sensor M12 non-flush
KIN-M18EA/008-2G	6521627001	NAMUR sensor M18 non-flush
KIB-M12PS/002-KL2D	6522903009	Inductive sensor M12 flush
KIN-M12PS/004-KL2D	6522904010	Inductive sensor M12 non-flush
KIB-M12PS/002-KLS12D	6522943011	Inductive Sensor M12 flush
KIN-M12PS/002-KLS12D	6522944012	Inductive sensor M12 non-flush
KIB-M18PS/005-KL2D	6522905013	Inductive sensor M118 flush
KIN-M18PS/008-KL2D	6522906014	Inductive sensor M18 non-flush
KIB-M18PS/005-KLS12D	6522905015	Inductive sensor M18 flush
KIN-M18PS/008-KLS12D	6522906016	Inductive sensor M18 non- flush
KIB-M30PS/010-KL2D	6522907017	Inductive sensor M30 flush
KIN-M30PS/015-KL2D	6522908018	Inductive sensor M30 non-flush
KIB-M30PS/010-KLS12D	6522907019	Inductive sensor M30 flush
KIN-M30PS/015-KLS12D	6522908020	Inductive sensor M30 non-flush

#### Technical Data NAMUR Sensors

- Operating voltage range max. 30 V DC
- NAMUR output
- Ambient temperature –25 °C to +60 °C
- Protection class IP 67
- Cable from 2 x 0,14 mm<sup>2</sup> up to 2 x 0,5 mm<sup>2</sup>
- Metal enclosure from M5 up to M30
- Suitable for zones 2, 22 (3G/3D)

#### Technical Data Inductive Sensors

- Operating voltage range 10–25 V DC
- Output current < 200 mA</p>
- PNP switching output
- Ambient temperature –25 °C to +70 °C
- Protection class IP 67
- Cable connection
- Metal enclosure from M12 up to M30
- Suitable for zones 2, 22 (3G/3D)



## Electromechanical Switches for potentially explosive atmospheres



An Ex d-certified snap-action switch lies at the core of the Ex-approved switches. This switch with protection class **flameproof encapsulation** can be used in **zones 1 and 2**.

The snap-action switch has two galvanically isolated contacts, one NC contact and one NO contact. It is designed for use as a mechanically protected built-in switch in housings, control and monitoring devices. It is available with different actuators for this purpose.

The switch insert is also used in various switch housings with different actuating devices.

For potentially explosive atmospheres, BERNSTEIN proposes the **ENM2** and **GC** series as position switches, the **F** series as foot switches and the **SD** series as rope pull switches.

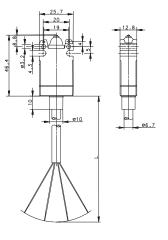
However, the **SI2** and **SN3** series as rope pull switches and belt alignment switches are also possible for the use in **zones 21 and 22**.



# Snap-action Switch EEX-SU1...

Туре	Article number	Type of switch
EEX-SU1Z W-2M-	6090153002	Version with plunger 2 m cable
EEX-SU1Z W-9M-	6090153005	Version with plunger 9 m cable
EEX-SU1Z RH-2M-	6090148022	Version with roller lever 2 m cable
EEX-SU1Z RH-5M-	6090148024	Version with roller lever 5 m cable
EEX-SU1Z RH-9M-	6090148025	Version with roller lever 9 m cable
EEX-SU1Z RHL-2M-	6090149027	Version with roller lever lang 2 m cable
EEX-SU1Z RHL-5M-	6090149029	Version with roller lever lang 5 m cable
EEX-SU1Z UH-2M-	6090146012	Version with extended stroke lever 2 m cable
EEX-SU1Z UH-5M-	6090146014	Version with extended stroke lever 5 m cable
EEX-SU1Z FH-2M-	6090145007	Version with flat lever 2 m cable
EEX-SU1Z FH-9M-	6090145010	Version with flat lever 9 m cable





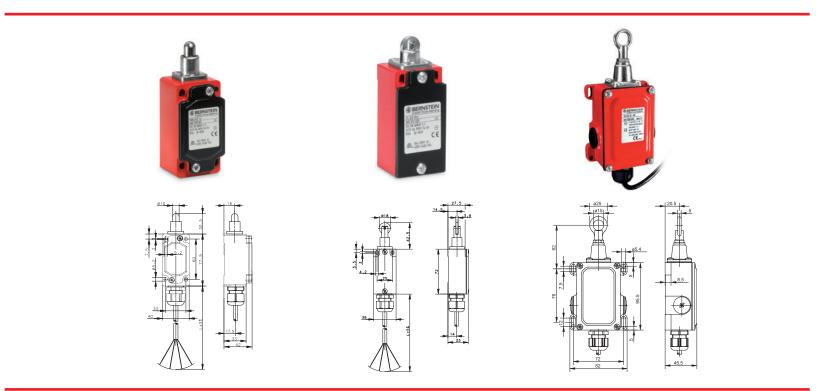
#### **Technical Data EEX-SU1Z**

- Certification Ex II 2G Ex d IIC T6
- Rated insulation voltage 250 V
- Rated operating voltage 230 V AC
- Conventional thermal current 5 A
- Utilization category / switching capacity AC 15 240 V / 3 A DC 13 250 V / 0,27 A
- Mechanical switching frequency max. 120/min.

- Mechanical service life 2 x10<sup>6</sup> switching cycles
- 1 NC/1 NO
- B10d: 4 million
- Suitable for **zones 1, 2 (2G)**
- Admissible ambient temperature –20 °C to +60 °C
- Protection class IP 66 according to IEC 60529
- PEI enclosure



## Position Switch series ENM2 and GC, Rope Pull Switch SD



#### **Types ENM2 and GC**

- Standard switch conforming to DIN EN 50041
- Standard actuator conforming to DIN EN 50041, Type A, B, C, D
- Protection class IP 66 to VDE 0470 T1
- Aluminium pressure die-casting enclosure
- Sheet aluminium cover
- Actuator can be repositioned by 4 x 90°
- Cable entry M20 x 1.5
- Metal actuators for high loads



## Ordering data ENM2, GC and SD

Туре	Article number	Type of switch
ENM2-SU1Z EX IW -2M-	6097152052	Version with plunger 2 m cable
ENM2-SU1Z EX IW -5M-	6097152054	Version with plunger 5 m Cable
ENM2-SU1Z EX IW -9M-	6097152055	Version with plunger 9 m Cable
ENM2-SU1Z EX HW -2M-	6097171072	Version with lever 2 m cable
ENM2-SU1Z EX HW -5M-	6097171074	Version with lever 5 m cable
ENM2-SU1Z EX HW -9M-	6097171075	Version with lever 9 m cable
ENM2-SU1Z EX RIW -2M-	6097167062	Version with roller 2 m cable
ENM2-SU1Z EX RIW -5M-	6097167064	Version with roller 5 m cable
ENM2-SU1Z EX RIW -9M-	6097167065	Version with roller 9 m Cable
ENM2-SU1Z EX AHT -2M-	6097185082	Version with spindle-mounted lever 2 m cable
ENM2-SU1Z EX AHT -5M-	6097185084	Version with spindle-mounted lever 5 m cable
ENM2-SU1Z EX AHT -9M-	6097185085	Version with spindle-mounted lever 9 m cable
ENM2-SU1Z EX AD -2M-	6097187092	Version with spindle-mounted lever Draht 2 m cable
ENM2-SU1Z EX AD -5M-	6097187094	Version with spindle-mounted lever Draht 5 m cable
ENM2-SU1Z EX AD -9M-	6097187095	Version with spindle-mounted lever Draht 9 m cable
ENM2-SU1Z EX FF -2M-	6097190097	Version with spring feeler 2 m cable
ENM2-SU1Z EX FF -5M-	6097190099	Version with spring feeler 5 m cable
ENM2-SU1Z EX FF -9M-	6097190100	Version with spring feeler 9 m cable
GC-SU1Z EX IW -2M-	6092152002	Version with plunger 2 m cable
GC-SU1Z EX IW -5M-	6092152004	Version with plunger 5 m cable
GC-SU1Z EX IW -9M-	6092152005	Version with plunger 9 m cable
GC-SU1Z EX HW -5M-	6092171024	Version with lever 5 m cable
GC-SU1Z EX HW -9M-	6092171025	Version with lever 9 m cable
GC-SU1Z EX RIW -2M-	6092167012	Version with roller 2 m cable
GC-SU1Z EX RIW -9M-	6092167015	Version with roller 5 m cable
GC-SU1Z EX AHW -2M-	6092185032	Version with spindle-mounted lever 2 m cable
GC-SU1Z EX AHW -5M-	6092185034	Version with spindle-mounted lever 5 m cable
GC-SU1Z EX AHW -9M-	6092185035	Version with spindle-mounted lever 9 m cable
SD-SU1 EX -2M-	6091100002	Version with 2 m cable
SD-SU1 EX -5M-	6091100004	Version with 5 m cable
SD-SU1 EX -9M-	6091100005	Version with 9 m cable

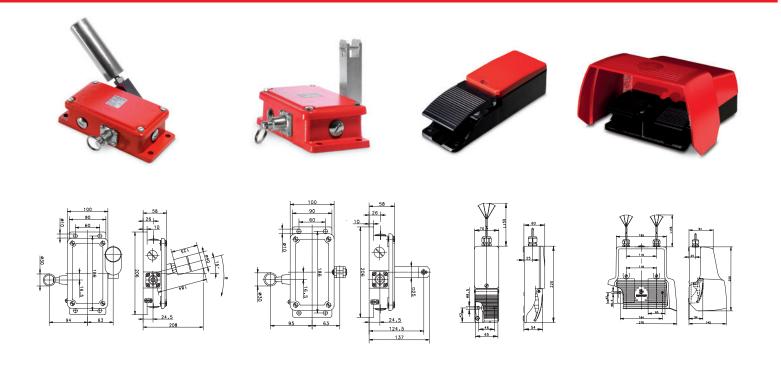
#### Technical Data ENM2, GC and SD

- Identification Ex II 2G Ex d IIC T6
- Rated insulation voltage 250 V
- Rated operating voltage 230 V AC
- Conventional thermal current 5 A
- Utilization category / switching capacity: AC 15 240 V / 3 A DC 13 250 V / 0,27 A
- Mechanical switching frequency max. 50/min.

- Mechanical service life 2 x10<sup>6</sup> switching cycles
- 1 NC/1 NO
- B10d: 4 million
- Suitable for zones 1, 2 (2G)
- Admissible ambient temperature –20 °C to +60 °C
- Protection class IP 66 according to IEC 60529
- Aluminium pressure die-casting enclosure



## Foot Switch series F, Rope Pull Switch and Belt Alignment Switch series SI2



#### **Belt alignment switch**

In conveyor belt applications, the safety switch prevents conveyor belts from being damaged or being destroyed as the result of the belt running off track. When the roller lever is deflected by a conveyor belt running off track the safety contacts in the switch engage, thus shutting down the conveyor belt.

Only after eliminating the cause of the malfunction can the system be restarted by means of the pull release (key ring).

#### **Rope pull switch**

**BERNSTEIN double-spanned cable pull** switches Si2 are also used in emergency stop applications. When the cable is pulled the switching lever is deflected in the corresponding direction and the system shut down. These rope pull switches can be used in applications with high temperature fluctuations and long cable spans. With their sturdy enclosure, these switches are perfect for harsh environments. Two cables spanned in opposite directions are attached to the switching device. The counter springs are secured to the wall at the ends of the cables. Provided the change in temperature is the same at all points along the cable, the springs will effectively compensate for the change in cable length.

#### Footswitch

BERNSTEIN offers you a wide range of foot switches to meet exacting requirements in industrial applications. They can be optionally equipped with an aluminium cover panel or a protective hood (UN) and have the protection class IP 66. The ambient temperature can reach from -30 °C up to +60 °C. The mounting holes make it possible to anchor the foot switch to the floor. Each foot switch is equipped with four rubber feet to prevent it slipping. The separators on multi-pedal foot switches prevent several pedals being inadvertently operated simultaneously (version without separators available on request). Type F1-F3 foot pedals are made from a thermoplastic material.



## **Ordering data**

Туре	Article number	Type of switch
F1-SU1Z EX UN-2M-	6096197017	Foot switch 1 pedal with protective hood 2 m cable
F1-SU1Z EX UN-5M-	6096197019	Foot switch 1 pedal with protective hood 5 m cable
F1-SU1Z EX -5M-	6096198014	Foot switch 1 pedal without protective hood 5 m cable
F2-SU1Z EX UN-5M-	6096197029	Foot switch 2 pedals with protective hood 5 m cable
F1-SU1Z EX -2M-	6096198022	Foot switch 2 Pedale without protective hood 2 m cable
SI2-U2Z AW EXD	6091295025	Belt alignment switch
SI2-U2Z AK EXD	6091288024	Rope pull switch

#### **Technical Data SI2 series**

- Identification Ex II 3D Ex tD A22 IP65 T80°C
- Rated insulation voltage 400 V
- Rated operating voltage 240 V AC
- Conventional thermal current10 A
- Utilization category /switching capacity: AC 15 240 V / 3 A
- Mechanical switching frequency max. 10 / min.

- Mechanical service life 2 x 10<sup>6</sup> switching cycles
- 2 NC/2 NO
- B10d: 4 million
- Suitable for **zones 22 (3D)**
- Admissible ambient temperature –20 °C to +60 °C
- Protection class IP 65 according to IEC 60529
- Metal enclosure

#### **Technical data foot switches**

- Identification Ex II 2G Ex d IIC T6
- Rated insulation voltage: 250 V
- Rated operating voltage 230 V AC
- Conventional thermal current 5 A
- Utilization category /switching capacity: AC 15 240 V / 3 A DC 13 250 V / 0,27 A
- Mechanical switching frequency max. 50 / min.

- Mechanical service life 2 x 10<sup>6</sup> switching cycles
- 1 NC /1 NO
- B10d: 4 million
- Suitable for zones 1, 2 (2G)
- Admissible ambient temperature –20 °C to +60 °C
- Protection class IP 66 according to IEC 60529
- Aluminium pressure die-casting enclosure