

# Anatomy of an IEC Limit Switch

## NEMA versus IEC limit switches

In the past, the U.S. market standardized on NEMA limit switches while the European market standardized on IEC limit switches. Now, however, the IEC standard is moving heavily into the U.S. market.

The primary difference between NEMA and IEC is the cost. A NEMA limit switch is typically over twice the price of an IEC limit switch. In many rugged applications, such as heavy machinery, foundries, or even mining, the performance of a NEMA limit switch is an absolute must. However, in

many applications, such as material handling, ASRS (automated storage and retrieval systems), an IEC limit switch will perform very well and will save you money.

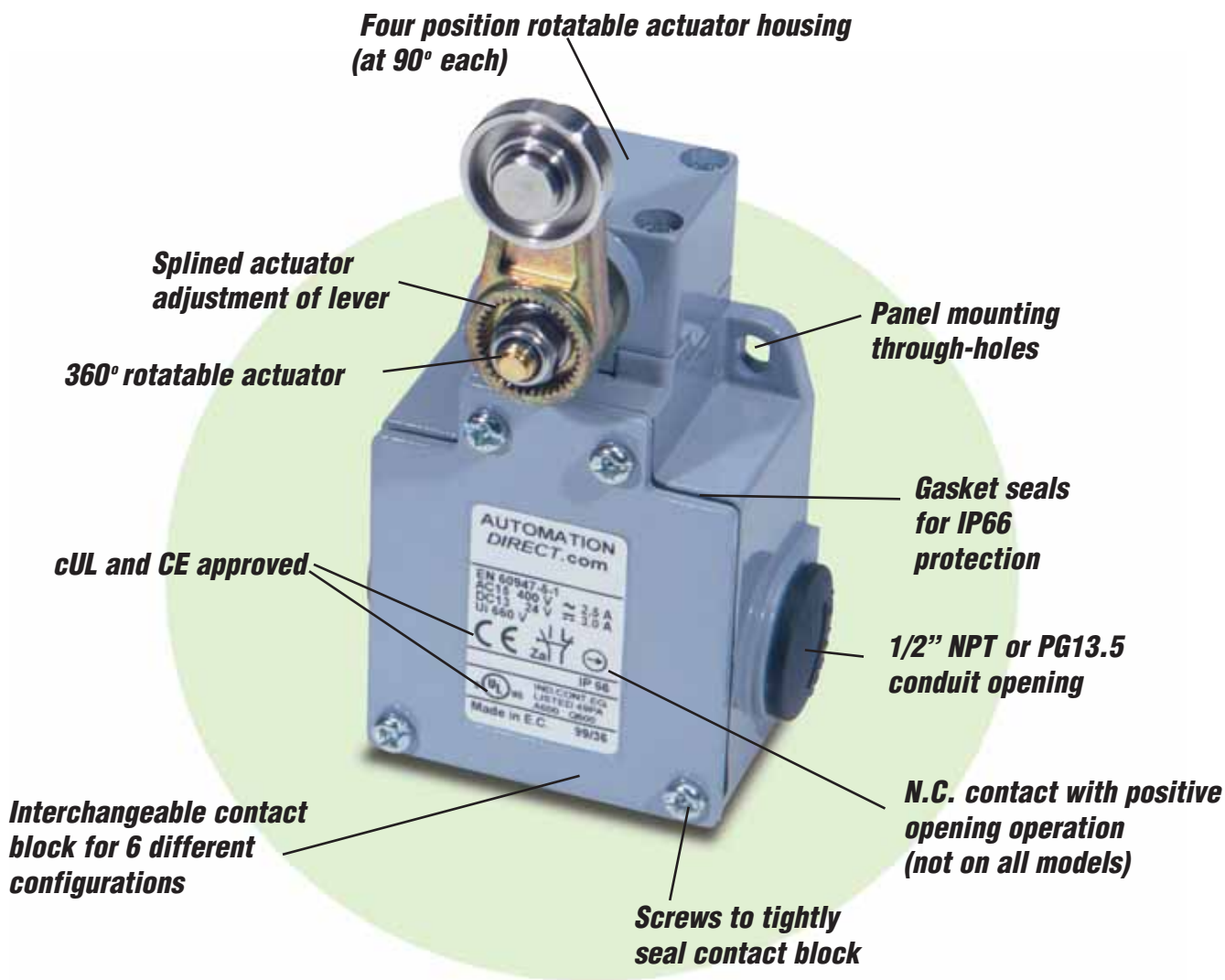
So remember, take a close look at your application needs and choose the most cost effective limit switch for you.

## How long does an IEC limit switch last?

Limit switches are involved in physical contact applications that cause wear and tear on the switch. We recognize this concern and supply only the highest quality, longest lasting limit switch.

In addition, don't be fooled by specifications on the mechanical life of a limit switch. Typically, the electrical life of the contact block is the limiting factor in the overall life of a limit switch. Because of this, we offer replacement contact blocks for as little as \$4.00. You shouldn't have to pay a lot to maintain your system.

In evaluating the specification, you will find that the AUTOMATIONDIRECT limit switch has an astounding mechanical life of 30 million operations, while the electrical life is an incredible 5 million operations. Compare this to some competitors' specifications and you'll see the AUTOMATIONDIRECT advantage.



# IEC Limit Switches Selection Guide



Series	ABM Series	ABP Series	AAP Series
<b>Prices start at</b>	<--->	<--->	<--->
<b>Description</b>	Heavy duty IEC	Double-insulated, non-metallic IEC	Double-insulated, non-metallic mini-DIN IEC
<b>Material</b>	Aluminum	PBT (plastic)	PBT (plastic)
<b>Degree of Protection (IEC529)</b>	IEC IP66	IEC IP65	IEC IP65
<b>Maximum Switching Frequency</b>	Contact blocks: all two cycles per second	Contact blocks: all two cycles per second	Contact blocks: all two cycles per second
<b>Mechanical Service Life</b>	25 million cycles	25 million cycles	25 million cycles
<b>Contact Configuration</b>	One snap-action set of N.O. / N.C. contacts. (Optional contact blocks with other configurations are available)	One snap-action set of N.O. / N.C. contacts. (Optional contact blocks with other configurations are available)	One snap-action set of N.O. / N.C. contacts. (Optional contact blocks with other configurations are available)
<b>Conduit Opening</b>	One and three cable holes, PG 13.5 or 1/2 NPT	One cable hole, PG 13.5 or 1/2 NPT	One cable hole, PG 11 or 1/2 NPT
<b>Connection</b>	2x2.5mm <sup>2</sup> (AWG14) to 2x0.5mm <sup>2</sup> (AWG 18)	2x2.5mm <sup>2</sup> (AWG14) to 2x0.5mm <sup>2</sup> (AWG 18)	2x2.5mm <sup>2</sup> (AWG14) to 2x0.5mm <sup>2</sup> (AWG 18)
<b>Agency Approvals</b>	CE markings for applicable CE Directives UL certified (UL508), File E191072. RoHS	CE markings for applicable CE Directives UL certified (UL508), File E191072. RoHS	CE markings for applicable CE Directives UL certified (UL508), File E191072. RoHS



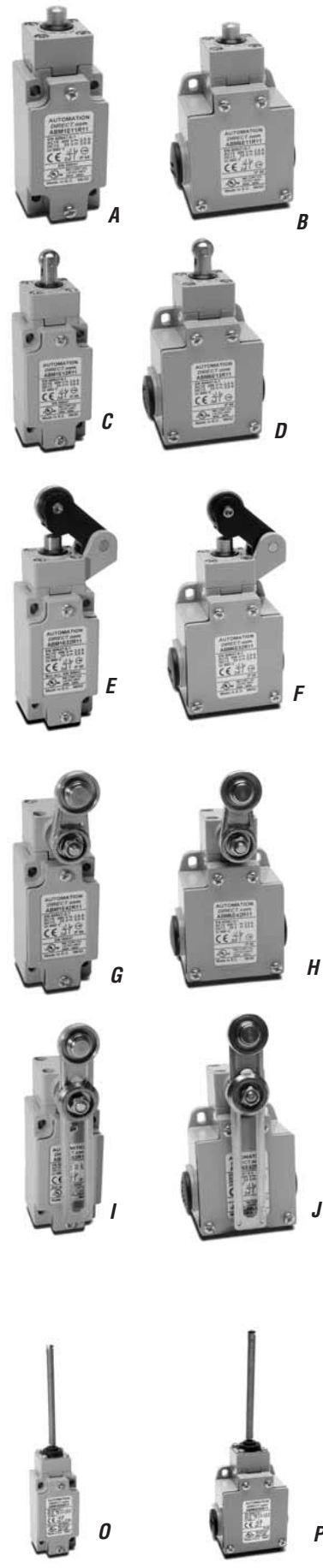
Series	AEM Series
<b>Prices start at</b>	<--->
<b>Description</b>	Compact 25mm mount
<b>Material</b>	Zinc Alloy
<b>Degree of Protection (IEC529)</b>	IEC IP67
<b>Maximum Switching Frequency</b>	Contact blocks: all one cycle per second
<b>Mechanical Service Life</b>	10 million cycles
<b>Contact Configuration</b>	One snap-action set of N.O. / N.C. contacts. One slow-action set of N.O. / N.C. contacts.
<b>Conduit Opening</b>	N/A
<b>Connection</b>	3 meter PVC cable
<b>Agency Approvals</b>	CE markings for applicable CE Directives UL certified (UL508), File E191072. RoHS

# IEC Limit Switches

## ABM series heavy-duty IEC limit switches

- Featuring a diecast aluminum body for heavy-duty industrial applications
- Single and multiple conduit openings to save wiring time and money when interconnecting several limit switches
- Conduit openings in 1/2" NPT or PG13.5
- Splined actuator shaft allows very fine adjustment of switch to fit all applications
- Choose from eight different actuators including roller levers and plungers

ABM Series									
Part Number	Price	Actuator Type	No. of Conduit Holes	Conduit Threads	Max. Actuation Speed (m/s)	Min. Actuation Force (N) / Torque (Nm)	Min. Positive Opening Force (N) / Torque (Nm)	Dimensions: Body / Head	Photo
ABM1E11Z11	<--->	Stainless steel plunger	One	PG13.5	0.5	30(N)	45(N)	Figures 1, 5	A
ABM2E11Z11	<--->		One	1/2" NPT	0.5	30(N)	45(N)	Figures 1, 5	A
ABM5E11Z11	<--->		Three	PG13.5	0.5	30(N)	45(N)	Figures 2, 5	B
ABM6E11Z11	<--->		Three	NPT	0.5	30(N)	45(N)	Figures 2, 5	B
ABM1E13Z11	<--->	Stainless steel plunger with roller	One	PG13.5	0.5	22(N)	40(N)	Figures 1, 6	C
ABM2E13Z11	<--->		One	1/2" NPT	0.5	22(N)	40(N)	Figures 1, 6	C
ABM5E13Z11	<--->		Three	PG13.5	0.5	22(N)	40(N)	Figures 2, 6	D
ABM6E13Z11	<--->		Three	1/2" NPT	0.5	22(N)	40(N)	Figures 2, 6	D
ABM1E32Z11	<--->	One-way lever with stainless steel roller	One	PG13.5	1.5	12(N)	40(N)	Figures 1, 7	E
ABM2E32Z11	<--->		One	1/2" NPT	1.5	12(N)	40(N)	Figures 1, 7	E
ABM5E32Z11	<--->		Three	PG13.5	1.5	12(N)	40(N)	Figures 2, 7	F
ABM6E32Z11	<--->		Three	1/2" NPT	1.5	12(N)	40(N)	Figures 2, 7	F
ABM1E42Z11	<--->	Rotary lever with stain. steel roller (See accessories for opt. roller and actuator levers)	One	PG13.5	1.5	0.15(Nm)	0.30(Nm)	Figures 1, 8	G
ABM2E42Z11	<--->		One	1/2" NPT	1.5	0.15(Nm)	0.30(Nm)	Figures 1, 8	G
ABM5E42Z11	<--->		Three	PG13.5	1.5	0.15(Nm)	0.30(Nm)	Figures 2, 8	H
ABM6E42Z11	<--->		Three	1/2" NPT	1.5	0.15(Nm)	0.30(Nm)	Figures 2, 8	H
ABM1E52Z11	<--->	Adj. rotary lever w/ stainless steel roller (See accessories for opt. roller and actuator levers)	One	PG13.5	1.5	0.15(Nm)	0.30(Nm)	Figures 1, 9	I
ABM2E52Z11	<--->		One	1/2" NPT	1.5	0.15(Nm)	0.30(Nm)	Figures 1, 9	I
ABM5E52Z11	<--->		Three	PG13.5	1.5	0.15(Nm)	0.30(Nm)	Figures 2, 9	J
ABM6E52Z11	<--->		Three	NPT	1.5	0.15(Nm)	0.30(Nm)	Figures 2, 9	J
ABM1E71Z11	<--->	Adjustable rotary lever w/ stainless steel rod	One	PG13.5	1.5	0.15(Nm)	0.30(Nm)	Figures 1, 10	K
ABM2E71Z11	<--->		One	1/2" NPT	1.5	0.15(Nm)	0.30(Nm)	Figures 1, 10	K
ABM5E71Z11	<--->		Three	PG13.5	1.5	0.15(Nm)	0.30(Nm)	Figures 2, 10	L
ABM6E71Z11	<--->		Three	1/2" NPT	1.5	0.15(Nm)	0.30(Nm)	Figures 2, 10	L
ABM1E92Z11	<--->	Wobble lever w/ polyamide tip stainless steel spring	One	PG13.5	1.0	0.18(Nm)	-	Figures 1, 11	M
ABM2E92Z11	<--->		One	1/2" NPT	1.0	0.18(Nm)	-	Figures 1, 11	M
ABM5E92Z11	<--->		Three	PG13.5	1.0	0.18(Nm)	-	Figures 2, 11	N
ABM6E92Z11	<--->		Three	1/2" NPT	1.0	0.18(Nm)	-	Figures 2, 11	N
ABM1E93Z11	<--->	Wobble lever w/ stainless steel spring	One	PG13.5	1.0	0.18(Nm)	-	Figures 1, 12	O
ABM2E93Z11	<--->		One	1/2" NPT	1.0	0.18(Nm)	-	Figures 1, 12	O
ABM5E93Z11	<--->		Three	PG13.5	1.0	0.18(Nm)	-	Figures 2, 12	P
ABM6E93Z11	<--->		Three	1/2" NPT	1.0	0.18(Nm)	-	Figures 2, 12	P



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# IEC Limit Switches

## ABP series double insulated limit switches

- Featuring an electrically isolated PBT body for corrosive environments
- Single conduit openings in 1/2" NPT or PG13.5
- Conduit openings splined actuator shaft allows very fine adjustment of switch to fit all applications
- Choose from eight different actuators including roller levers, plungers, and wobble sticks

ABP Series									
Part Number	Price	Actuator Type	Number of Conduit Holes	Conduit Threads	Max. Actuation Speed (m/s)	Min. Actuation Force (N) / Torque (Nm)	Min. Positive Opening Force (N) / Torque (Nm)	Dimensions: Body / Head	Photo
ABP1H14Z11	<--->	Galvanized steel plunger	One	PG13.5	0.5	14(N)	40(N)	Figures 3, 5	A
ABP2H14Z11	<--->		One	1/2" NPT	0.5	14(N)	40(N)	Figures 3, 5	A
ABP1H19Z11	<--->	Galvanized steel plunger with roller	One	PG13.5	0.5	14(N)	40(N)	Figures 3, 6	B
ABP2H19Z11	<--->		One	1/2" NPT	0.5	14(N)	40(N)	Figures 3, 6	B
ABP1H35Z11	<--->	One-way lever with polyamide roller	One	PG13.5	1.0	8(N)	30(N)	Figures 3, 7	C
ABP2H35Z11	<--->		One	1/2" NPT	1.0	8(N)	30(N)	Figures 3, 7	C
ABP1H41Z11	<--->	Side rotary lever with polyamide roller	One	PG13.5	1.5	0.15(Nm)	0.30(Nm)	Figures 3, 8	D
ABP2H41Z11	<--->		One	1/2" NPT	1.5	0.15(Nm)	0.30(Nm)	Figures 3, 8	D
ABP1H51Z11	<--->	Side rotary adjustable lever with polyamide roller	One	PG13.5	1.5	0.15(Nm)	0.30(Nm)	Figures 3, 9	E
ABP2H51Z11	<--->		One	1/2" NPT	1.5	0.15(Nm)	0.30(Nm)	Figures 3, 9	E
ABP1H71Z11	<--->	Side rotary with stainless steel rod	One	PG13.5	1.5	0.15(Nm)	0.30(Nm)	Figures 3, 10	F
ABP2H71Z11	<--->		One	1/2" NPT	1.5	0.15(Nm)	0.30(Nm)	Figures 3, 10	F
ABP1H92Z11	<--->	Wobble lever w/ polyamide tip stainless steel spring	One	PG13.5	1.0	0.18(Nm)	-	Figures 3, 11	G
ABP2H92Z11	<--->		One	1/2" NPT	1.0	0.18(Nm)	-	Figures 3, 11	G
ABP1H93Z11	<--->	Wobble lever w/ stainless steel spring	One	PG13.5	1.0	0.18(Nm)	-	Figures 3, 12	H
ABP2H93Z11	<--->		One	1/2" NPT	1.0	0.18(Nm)	-	Figures 3, 12	H



# IEC Limit Switches

## AAP series miniature DIN limit switches

- Small body allows mounting in tight spaces
- Featuring an electrically isolated PBT body for corrosive environments
- Single conduit openings in 1/2" NPT or PG11
- Splined actuator shaft allows very fine adjustment of switch to fit all applications
- Choose from six different actuators including roller levers, plungers, and wobble sticks

AAP Series									
Part Number	Price	Actuator Type	Number of Conduit Holes	Conduit Threads	Max. Actuation Speed (m/s)	Min. Actuation Force (N) / Torque (Nm)	Min. Positive Opening Force (N) / Torque (Nm)	Dimensions Body / Head	Photo
AAP2T14Z11	<--->	Mini w/ galvanized steel plunger	One	PG11 threads with a 1/2" NPT adapter	0.5	15(N)	30(N)	Figures 4, 15	A
AAP2T13Z11	<--->	Mini w/ galvanized steel plunger with polyamide plastic roller	One	PG11 threads with a 1/2" NPT adapter	0.5	12(N)	30(N)	Figures 4, 16	B
AAP2T35Z11	<--->	Mini w/ one-way lever with polyamide roller	One	PG11 threads with a 1/2" NPT adapter	1.0	7(N)	24(N)	Figures 4, 17	C
AAP2T41Z11	<--->	Mini side rotary with polyamide roller	One	PG11 threads with a 1/2" NPT adapter	1.5	0.10(Nm)	0.32(Nm)	Figures 4, 18	D
AAP2T51Z11	<--->	Mini side rotary adjustable lever with polyamide roller	One	PG11 threads with a 1/2" NPT adapter	1.5	0.10(Nm)	0.32(Nm)	Figures 4, 19	E
AAP2T71Z11	<--->	Mini side rotary with steel rod	One	PG11 threads with a 1/2" NPT adapter	1.5	0.10(Nm)	0.32(Nm)	Figures 4, 20	F



A



B



C



D



E



F

# IEC Limit Switches Accessories

## Replacement contact blocks

Easily-installed replacement contact blocks fit both heavy-duty IEC and double-insulated limit switches, including mini-DIN models.



Note: Limit switches come standard with snap-action contacts (AGZ11-SWITCH.) To replace contact block, remove limit switch cover. Carefully remove old contact block and install replacement. Contact blocks are supplied with an adapter to fit into larger ABM and ABP switches. Remove this adapter when installing contacts in mini-DIN AAP models.

Replacement Contact Blocks			
Part Number	Price	Contact Type	Action
AGZ11-SWITCH	<--->	Snap-action 1 N.C. and N.O.	3ms change-over time
AGZ02-SWITCH	<--->	Snap-action 2 N.C.	3ms change-over time
AGX11-SWITCH	<--->	Slow-action 1 N.C. and 1 N.O.	Break before make
AGY11-SWITCH	<--->	Slow-action overlay 1 N.C. and 1 N.O.	Make before break
AGW02-SWITCH	<--->	Slow-action delay 2 N.C.	Simultaneous
AGW20-SWITCH	<--->	Slow-action overlay 2 N.O.	Simultaneous

## Additional lever arms, spare parts and accessories for ABM series

Additional Lever Arms/Spare Parts and Accessories			
Part Number	Price	Dimensions	Actuator Type
AGE42-LEVER	<--->	Figure 8	Lever with stainless steel roller for E42 models (replacement lever)
AGE44-LEVER	<--->	Figure 13	Lever with 50mm diameter rubber roller (fits E42 models)
AGE52-LEVER	<--->	Figure 9	Lever with stainless steel roller for E52 models (replacement lever)
AGE54-LEVER	<--->	Figure 14	Lever with 50mm diameter rubber roller (fits E52 models)

Note: See the Bar Charts page of this section for more information.



### Replacement actuator levers for heavy-duty IEC models

Easily-replaceable actuators for E42 and E52 model limit switches.

Note: These models have an E42 or E52 in the part number, for example, ABM1E42Z11.



### AGE52-LEVER

(Replacement lever shown installed on ABM5E52Z11 limit switch)

### AGE44-LEVER



### AGE54-LEVER



# Compact Limit Switches

## AEM2G Series Compact Limit Switches

- Die-cast metal housings
- 3-meter cable on all units
- 1 N.O. and 1 N.C. contact on all units
- Compact size with standard 25 mm hole spacing
- Wide offering of head actuators
- Epoxy resin-filled for IP67 rating
- Both snap-action (Z11) and slow-make/slow-break (X11) contacts available
- N.C. contacts are positive-opening operated unless otherwise noted. ⊖



AEM2G Series Compact Limit Switches Selection Chart								
Part Number	Price	Actuator Type	Max. Actuation Speed (m/s)	Min. Actuation Force (N)/Torque (Nm)	Min. Positive Opening Force (N)/Torque (Nm)	Head Dimensions	Contact Config. Diagram	Photo
AEM2G11Z11-3	<--->	Metal plunger	0.5	15	30	Figure 1	1	A
AEM2G11X11-3	<--->						2	
AEM2G12Z11-3	<--->	Metal plunger with metal roller actuator	0.1	10	30	Figure 2	1	B
AEM2G12X11-3	<--->						2	
AEM2G13Z11-3	<--->	Metal plunger with nylon roller actuator	0.1	10	30	Figure 2	1	C
AEM2G13X11-3	<--->						2	
AEM2G14Z11-3	<--->	Metal plunger with metal cross roller actuator	0.5	15	30	Figure 3	1	D
AEM2G14X11-3	<--->						2	
AEM2G15Z11-3	<--->	Metal plunger with nylon cross roller actuator	0.5	15	30	Figure 3	1	E
AEM2G15X11-3	<--->						2	
AEM2G16Z11-3	<--->	Metal plunger with dust cap	0.5	15	30	Figure 4	1	F
AEM2G16X11-3	<--->						2	
AEM2G21Z11-3	<--->	Metal plunger actuator with fixing nuts	0.1	10	30	Figure 5	1	G
AEM2G21X11-3	<--->						2	
AEM2G22Z11-3	<--->	Metal plunger with metal roller actuator with fixing nuts	0.1	10	30	Figure 6	1	H
AEM2G22X11-3	<--->						2	
AEM2G23Z11-3	<--->	Metal plunger with nylon roller actuator with fixing nuts	0.1	10	30	Figure 6	1	I
AEM2G23X11-3	<--->						2	
AEM2G24Z11-3	<--->	Metal plunger with metal cross roller actuator with fixing nuts	1.5	0.08	0.28	Figure 7	1	J
AEM2G24X11-3	<--->						2	
AEM2G25Z11-3	<--->	Metal plunger with nylon cross roller actuator with fixing nuts	1.5	0.08	0.28	Figure 7	1	K
AEM2G25X11-3	<--->						2	
AEM2G41Z11-3	<--->	Lever with 14 mm nylon roller actuator	1.5	0.08	0.28	Figure 8	1	L
AEM2G41X11-3	<--->						2	



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# Compact Limit Switches



AEM2G Series Compact Limit Switches Selection Chart, Continued										
Part Number	Price	Actuator Type	Max. Actuation Speed (m/s)	Min. Actuation Force (N)/Torque (Nm)	Min. Positive Opening Force (N)/Torque (Nm)	Head Dimensions	Contact Config. Diagram	Photo		
AEM2G42Z11-3	<--->	Lever with 14 mm metal roller actuator	1.5	0.08	0.28	Figure 8	1	M		
AEM2G42X11-3	<--->						2			
AEM2G43Z11-3	<--->	Lever with 14 mm ball bearing roller actuator					1	N		
AEM2G43X11-3	<--->						2			
AEM2G45Z11-3	<--->	Lever with 18 mm nylon roller actuator				1	O			
AEM2G45X11-3	<--->					2				
AEM2G51Z11-3	<--->	Adjustable lever with 18 mm nylon roller actuator				1	P			
AEM2G51X11-3	<--->					2				
AEM2G61Z11-3	<--->	Lever with nylon-tipped stainless steel spring actuator				-	-	Figure 11	1*	Q
AEM2G61X11-3	<--->								2*	
AEM2G71Z11-3	<--->	Adjustable 3 mm stainless steel rod actuator				0.28	-	Figure 12	1	R
AEM2G71X11-3	<--->								2	
AEM2G72Z11-3	<--->	Adjustable 3 mm fiberglass rod actuator							1	S
AEM2G72X11-3	<--->								2	
AEM2G73Z11-3	<--->	Adjustable 6 mm nylon rod actuator							1	T
AEM2G73X11-3	<--->		2							
AEM2G74Z11-3	<--->	Adjustable 6 mm fiberglass rod actuator	1	U						
AEM2G74X11-3	<--->		2							
AEM2G75Z11-3	<--->	Adjustable 3 mm square steel actuator	1	V						
AEM2G75X11-3	<--->		2							
AEM2G92Z11-3	<--->	360 degree stainless steel spring with nylon tip actuator	1.0	0.10	-			Figure 14	1*	W
AEM2G93Z11-3	<--->	360 degree stainless steel spring actuator						Figure 15	1*	X

\* Note: Not positive-opening



# Compact Limit Switches

Compact Limit Switches Specifications		
Approvals		
UL file E191072, CE, RoHS		
Environmental		
<b>Degree of Protection</b>	IP67 according to IEC 529	
<b>Temperature Range</b>	Storage: -40° to 70°C (-40° to 158°F). Operating: -25° to 70°C (-13° to 158°F)	
Mechanical Ratings		
<b>Mechanical Life</b>	10 million operations	
<b>Enclosure Material</b>	ZAMAK (zinc alloy)	
Contact Blocks Rating		
<b>Positive Opening</b>	Yes, except G61, G92, G93	
<b>Electrical Ratings</b>	<b>AC15</b>	Make: 50A @ 24VAC; 30A @ 120VAC; 15A @ 240VAC Break: 5A @ 24VAC; 3A @ 130VAC; 1.5A @ 230VAC
	<b>DC13</b>	1.1A @ 24VDC; 0.22A @ 125VDC; 0.1A@250VDC
<b>Maximum Switching Frequency</b>	Contact blocks: all one cycle per second	
<b>Repeat Accuracy</b>	0.05 mm on the operating points at 1 million operations	
<b>Short-Circuit Protection</b>	6A @ <500V	
<b>Contact Resistance</b>	25 milli Ω	
<b>Recommended Minimum Operating Speed</b>	With slow-action contacts: 500 mm per minute	
<b>Rated Insulation Voltage</b>	B300, R300 according to UL508; 400V (degree of pollution: 3) according to IEC 947-1	
<b>Cable Type</b>	3m PVC cable, 5 x 0.75mm <sup>2</sup> (18 AWG). Overall cable diameter: 8.20 mm (0.32 in.)	
<b>Wiring Terminal Markings</b>	According to CENELEC EN50013	
<b>Electrical Protection</b>	Class I according to IEC536	
Contact Blocks Performance		
<b>Operation Frequency</b>	3600 ops/h	
<b>Electrical Durability (according to IEC 947-5-1)</b>	Utilization categories AC-15 and DC-13; load factor of 0.5.	
<b>Screw Size</b>	Heads G11 to G25, G92 and G93: M3 x 5mm screw. Heads G41 and over (except G92 and G93): M3 x 18 mm screw	
<b>Torque</b>	All: 0.5 Nm (0.8 Nm max)	



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Encoders

Current Sensors

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Temperature Sensors

Pushbuttons/ Lights

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Relays/ Timers

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Compact Limit Switches Cross Reference				
ADC	Allen-Bradley	Honeywell	Eaton Cutler-Hammer	Omron
<b>AEM2G11Z11-3</b>	802B-CSABXSXC3	914CE1-3	E47BCC05	D4C-1601
<b>AEM2G12Z11-3</b>	802B-CSADXSC3	914CE2-3	E47BCC07	D4C-1602
<b>AEM2G14Z11-3</b>	802B-CSAD1XSXC3	914CE3-3	E47BCC11	D4C-1603
<b>AEM2G16Z11-3</b>	802B-CSABBSXC3	914CE18-3	E47BCC06	D4C-1631
<b>AEM2G42Z11-3</b>	802B-CSAAXSXC3	914CE16-3	E47BCC15	D4C-1620
<b>AEM2G51Z11-3</b>	NA	NA	E47BCC21	NA
<b>AEM2G71Z11-3</b>	NA	NA	E47BCC22	NA
<b>AEM2G92Z11</b>	802B-CSACXSXC3	NA	E47BCC20	D4C-1650
<b>AEM2G93Z11</b>	NA	914CE20-3	NA	NA