

Electrical Connection

CM1: three cable inlets for PG 13,5 Cable Gland

CM2: three cable inlets for 1/2" NPT Cable Gland

CM5: three cable inlets for M20 x 1,5 Cable Gland



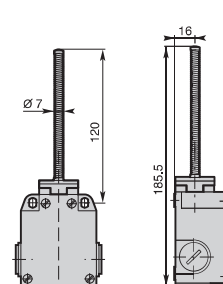
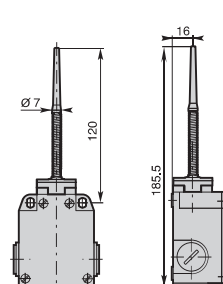
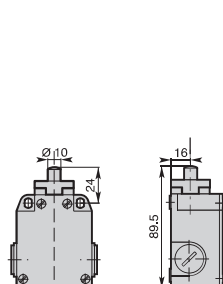
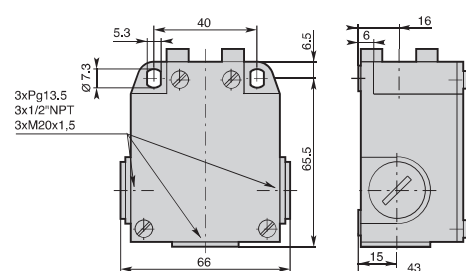
Operating Head Type

Operating Head Type	P11 - Plain plunger	P92 - Multidirectional nylon actuator with stainless steel spring	P93 - Stainless steel spring multidirectional actuator
Conformity /  (N.C. contact with positive opening operation)			
Max actuation speed [m/s]	0,5	1,0	1,0
Min. force [N] or torque [Nm]: actuation / positive opening operation	30 / 45	0,18 / –	0,18 / –

Additional Technical Datas

Z11 Snap Action Contacts (1NO + 1NC)		Order Code Operation Diagram	CM-P11Z11 	CM-P92Z11 	CM-P93Z11
X11 Non overlapping Slow Action Contacts (1NO + 1NC)		Order Code Operation Diagram	CM-P11X11 	CM-P92X11 	CM-P93X11
Y11 Overlapping Slow Action Contacts (1NO + 1NC)		Order Code Operation Diagram	CM-P11Y11 	CM-P92Y11 	CM-P93Y11
W02 Slow Action Contacts (2NC)		Order Code Operation Diagram	CM-P11W02 	CM-P92W02 	CM-P93W02
W20 Slow Action Contacts (2NO)		Order Code Operation Diagram	CM-P11W20 	CM-P92W20 	CM-P93W20
Z02 Snap Action Contacts (2NC)		Order Code Operation Diagram	CM-P11Z02 	CM-P92Z02 	CM-P93Z02
X12 Non overlapping Slow Action Contacts (1NO + 2NC)		Order Code Operation Diagram	CM-P11X12 	CM-P92X12 	CM-P93X12
X21 Non overlapping Slow Action Contacts (2NO + 1NC)		Order Code Operation Diagram	CM-P11X21 	CM-P92X21 	CM-P93X21
W03 Simultaneous Slow Action Contacts (3NC)		Order Code Operation Diagram	CM-P11W03 	CM-P92W03 	CM-P93W03
W30 Simultaneous Slow Action Contacts (3NO)		Order Code Operation Diagram	CM-P11W30 	CM-P92W30 	CM-P93W30
Weight (packing per unit)		[kg]	0,245	0,245	0,250

Dimensions (in mm)



Electrical Connection

CM1: three cable inlets for PG 13,5 Cable Gland

CM2: three cable inlets for 1/2" NPT Cable Gland

CM5: three cable inlets for M20 x 1,5 Cable Gland



Operating Head Type

M13 - Steel roller plunger

M14 - Plain steel plunger with dust protection cup

M19 - Steel roller plunger with dust protection cup

Conformity / $\odot$ (N.C. contact with positive opening operation)
Max actuation speed [m/s]
Min. force [N] or torque [Nm]: actuation / positive opening operation

0,5
22 / 40

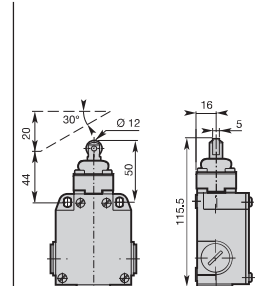
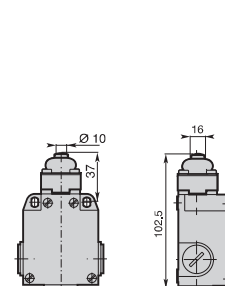
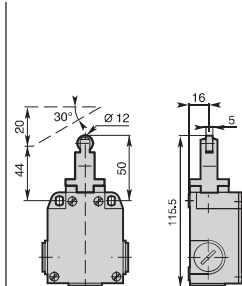
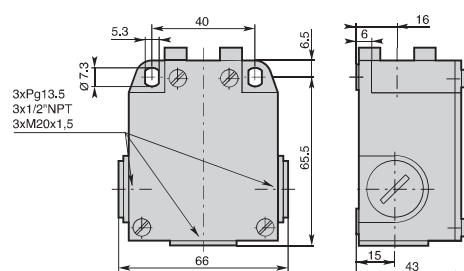
0,5
30 / 45

0,5
22 / 40

Additional Technical Datas

Z11 Snap Action Contacts (1NO + 1NC)		Order Code Operation Diagram	CM-M13Z11 	CM-M14Z11 	CM-M19Z11
X11 Non overlapping Slow Action Contacts (1NO + 1NC)		Order Code Operation Diagram	CM-M13X11 	CM-M14X11 	CM-M19X11
Y11 Overlapping Slow Action Contacts (1NO + 1NC)		Order Code Operation Diagram	CM-M13Y11 	CM-M14Y11 	CM-M19Y11
W02 Slow Action Contacts (2NC)		Order Code Operation Diagram	CM-M13W02 	CM-M14W02 	CM-M19W02
W20 Slow Action Contacts (2NO)		Order Code Operation Diagram	CM-M13W20 	CM-M14W20 	CM-M19W20
Z02 Snap Action Contacts (2NC)		Order Code Operation Diagram	CM-M13Z02 	CM-M14Z02 	CM-M19Z02
X12 Non overlapping Slow Action Contacts (1NO + 2NC)		Order Code Operation Diagram	CM-M13X12 	CM-M14X12 	CM-M19X12
X21 Non overlapping Slow Action Contacts (2NO + 1NC)		Order Code Operation Diagram	CM-M13X21 	CM-M14X21 	CM-M19X21
W03 Simultaneous Slow Action Contacts (3NC)		Order Code Operation Diagram	CM-M13W03 	CM-M14W03 	CM-M19W03
W30 Simultaneous Slow Action Contacts (3NO)		Order Code Operation Diagram	CM-M13W30 	CM-M14W30 	CM-M19W30
Weight (packing per unit)		[kg]	0,290	0,280	0,290

Dimensions (in mm)



Electrical Connection

CM1: three cable inlets for PG 13,5 Cable Gland

CM2: three cable inlets for 1/2" NPT Cable Gland

CM5: three cable inlets for M20 x 1,5 Cable Gland



Operating Head Type

M4 - Ø 22 roller lever

M41: nylon roller
M42: stainless steel roller
M43: steel ball bearing

M44 - Ø 50 rubber roller lever

M5 - Adjustable Ø 22 roller lever

M51: nylon roller
M52: stainless steel roller
M53: steel ball bearing

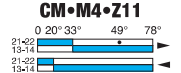
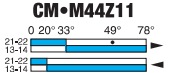
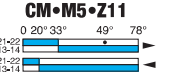
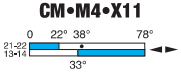
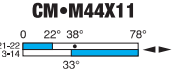
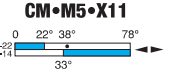
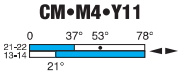
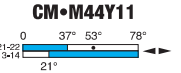
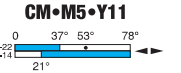
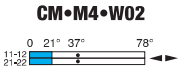
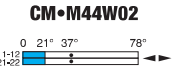
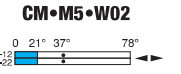
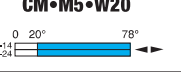
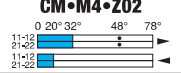
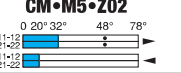
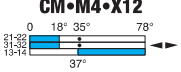
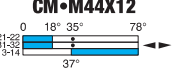
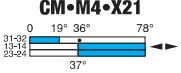
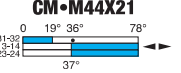
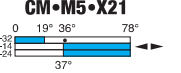
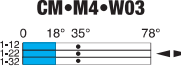
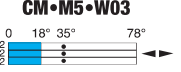
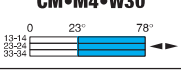
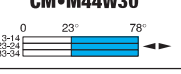
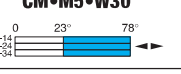
Conformity /  (N.C. contact with positive opening operation)
Max actuation speed [m/s]
Min. force [N] or torque [Nm]: actuation / positive opening operation

1,5
0,15 / 0,30

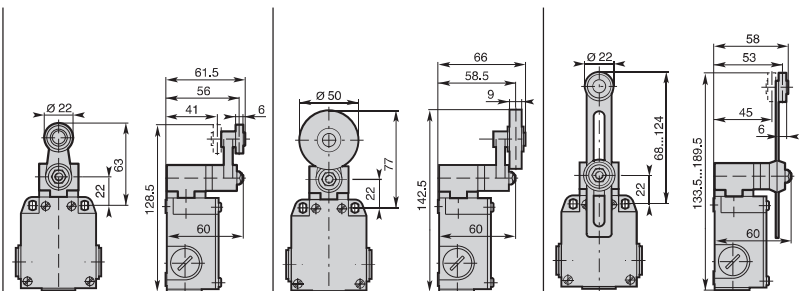
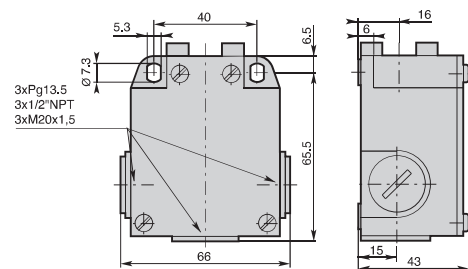
1,5
0,15 / 0,30

1,5
0,15 / 0,30

Additional Technical Datas

Z11 Snap Action Contacts (1NO + 1NC)		Order Code Operation Diagram	CM-M4-Z11 	CM-M44Z11 	CM-M5-Z11 
X11 Non overlapping Slow Action Contacts (1NO + 1NC)		Order Code Operation Diagram	CM-M4-X11 	CM-M44X11 	CM-M5-X11 
Y11 Overlapping Slow Action Contacts (1NO + 1NC)		Order Code Operation Diagram	CM-M4-Y11 	CM-M44Y11 	CM-M5-Y11 
W02 Slow Action Contacts (2NC)		Order Code Operation Diagram	CM-M4-W02 	CM-M44W02 	CM-M5-W02 
W20 Slow Action Contacts (2NO) 		Order Code Operation Diagram	CM-M4-W20 	CM-M44W20 	CM-M5-W20 
Z02 Snap Action Contacts (2NC)		Order Code Operation Diagram	CM-M4-Z02 	CM-M44Z02 	CM-M5-Z02 
X12 Non overlapping Slow Action Contacts (1NO + 2NC)		Order Code Operation Diagram	CM-M4-X12 	CM-M44X12 	CM-M5-X12 
X21 Non overlapping Slow Action Contacts (2NO + 1NC)		Order Code Operation Diagram	CM-M4-X21 	CM-M44X21 	CM-M5-X21 
W03 Simultaneous Slow Action Contacts (3NC)		Order Code Operation Diagram	CM-M4-W03 	CM-M44W03 	CM-M5-W03 
W30 Simultaneous Slow Action Contacts (3NO) 		Order Code Operation Diagram	CM-M4-W30 	CM-M44W30 	CM-M5-W30 
Weight (packing per unit)	[kg]		0,325	0,335	0,345

Dimensions (in mm)





**M54 - Adjustable
Ø 50 rubber roller lever**

1,5
0,15 / 0,30



**M61 - Nylon actuator
with stainless steel spring**

1,5
0,15 / -



**M62 - Stainless steel
spring actuator**

1,5
0,15 / -



**M7• - Adjustable
rod lever**

M71: stainless steel rod Ø3
M73: fiberglass rod Ø3
M75: square steel rod 3x3

1,5
0,15 / 0,30

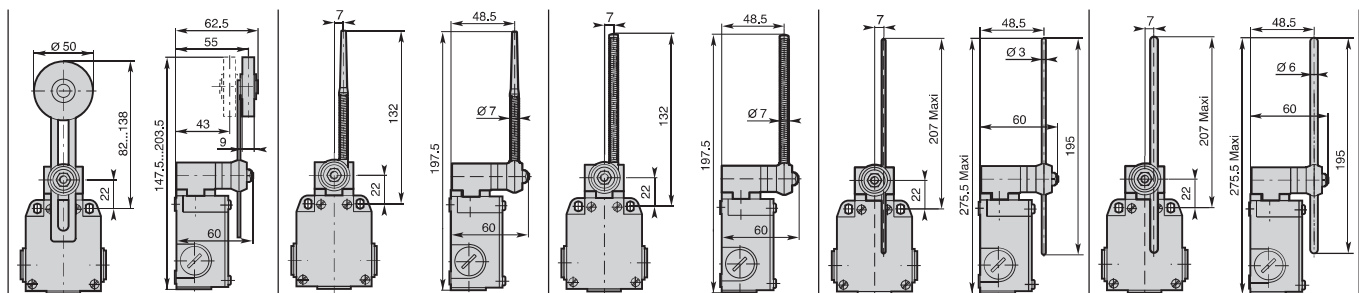


**M7• - Adjustable Ø 6
rod lever**

M72: nylon rod
M74: fiberglass rod

1,5
0,15 / 0,30

CM-M54Z11 	CM-M61Z11 	CM-M62Z11 	CM-M7•Z11 	CM-M7•Z11
CM-M54X11 	CM-M61X11 	CM-M62X11 	CM-M7•X11 	CM-M7•X11
CM-M54Y11 	CM-M61Y11 	CM-M62Y11 	CM-M7•Y11 	CM-M7•Y11
CM-M54W02 	CM-M61W02 	CM-M62W02 	CM-M7•W02 	CM-M7•W02
CM-M54W20 	CM-M61W20 	CM-M62W20 	CM-M7•W20 	CM-M7•W20
CM-M54Z02 	CM-M61Z02 	CM-M62Z02 	CM-M7•Z02 	CM-M7•Z02
CM-M54X12 	CM-M61X12 	CM-M62X12 	CM-M7•X12 	CM-M7•X12
CM-M54X21 	CM-M61X21 	CM-M62X21 	CM-M7•X21 	CM-M7•X21
CM-M54W03 	CM-M61W03 	CM-M62W03 	CM-M7•W03 	CM-M7•W03
CM-M54W30 	CM-M61W30 	CM-M62W30 	CM-M7•W30 	CM-M7•W30
0,350	0,350	0,350	0,350	0,350



Electrical Connection

CM1: three cable inlets for PG 13,5 Cable Gland

CM2: three cable inlets for 1/2" NPT Cable Gland

CM5: three cable inlets for M20 x 1,5 Cable Gland



Operating Head Type

E11 - Stainless steel plain plunger

E12 - Stainless steel ball plunger

E13 - Stainless steel Ø 12 roller plunger

Conformity / (N.C. contact with positive opening operation)
Max actuation speed [m/s]
Min. force [N] or torque [Nm]: actuation / positive opening operation

0,5
30 / 45

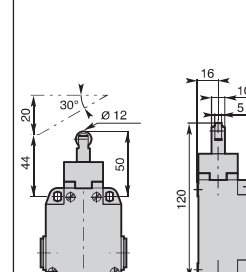
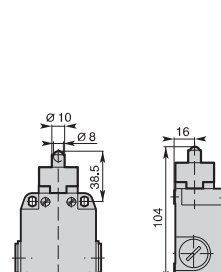
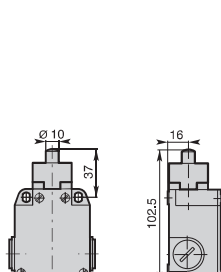
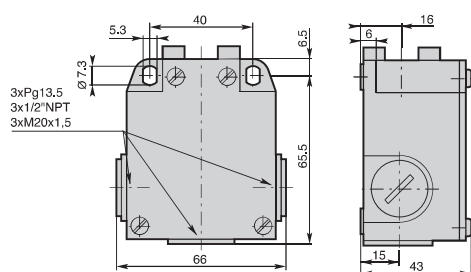
0,5
30 / 45

0,5
22 / 40

Additional Technical Data

Z11 Snap Action Contacts (1NO + 1NC)		Order Code Operation Diagram	CM•E11Z11 	CM•E12Z11 	CM•E13Z11
X11 Non overlapping Slow Action Contacts (1NO + 1NC)		Order Code Operation Diagram	CM•E11X11 	CM•E12X11 	CM•E13X11
Y11 Overlapping Slow Action Contacts (1NO + 1NC)		Order Code Operation Diagram	CM•E11Y11 	CM•E12Y11 	CM•E13Y11
W02 Slow Action Contacts (2NC)		Order Code Operation Diagram	CM•E11W02 	CM•E12W02 	CM•E13W02
W20 Slow Action Contacts (2NO)		Order Code Operation Diagram	CM•E11W20 	CM•E12W20 	CM•E13W20
Z02 Snap Action Contacts (2NC)		Order Code Operation Diagram	CM•E11Z02 	CM•E12Z02 	CM•E13Z02
X12 Non overlapping Slow Action Contacts (1NO + 2NC)		Order Code Operation Diagram	CM•E11X12 	CM•E12X12 	CM•E13X12
X21 Non overlapping Slow Action Contacts (2NO + 1NC)		Order Code Operation Diagram	CM•E11X21 	CM•E12X21 	CM•E13X21
W03 Simultaneous Slow Action Contacts (3NC)		Order Code Operation Diagram	CM•E11W03 	CM•E12W03 	CM•E13W03
W30 Simultaneous Slow Action Contacts (3NO)		Order Code Operation Diagram	CM•E11W30 	CM•E12W30 	CM•E13W30
Weight (packing per unit)	[kg]		0,265	0,265	0,270

Dimensions (in mm)





E21 - Stainless steel lateral plain plunger

0,5
30 / 45



E22 - Stainless steel lateral plunger with Ø 12 vertical roller

0,5
30 / 45



E23 - Stainless steel lateral plunger with Ø 12 horizontal roller

0,5
22 / 40



E3 - One way lever

E31: Ø22 nylon roller
E32: Ø22 stainless steel roller
E33: Ø22 steel ball bearing

1,5
12 / 30

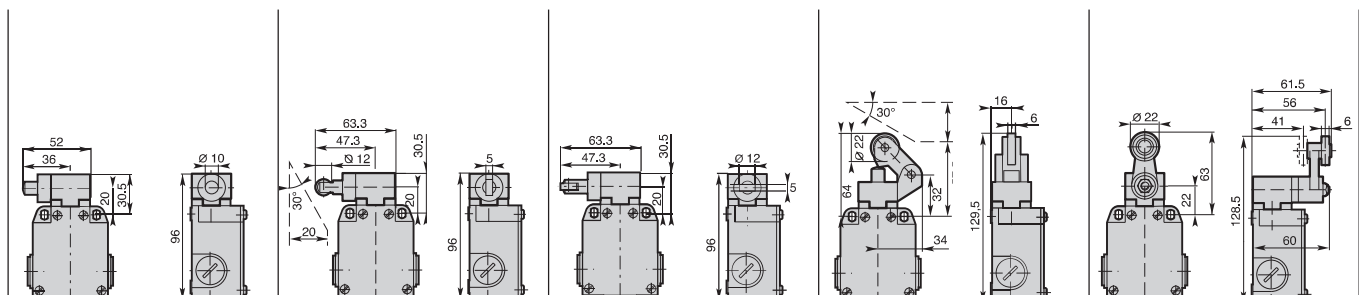


E4 - Ø 22 roller lever

E41: nylon roller
E42: stainless steel roller
E43: steel ball bearing

1,5
0,15 / 0,30

CM•E21Z11 0 2,0 3,2 4,8 6,0 mm	CM•E22Z11 0 3,7 5,9 8,8 10,2 mm	CM•E23Z11 0 3,7 5,9 8,8 10,2 mm	CM•E3•Z11 0 3,1 6,3 10,8 15,5 mm	CM•E4•Z11 0 20° 33° 49° 78°
CM•E21X11 0 2,3 3,9 6,0 mm	CM•E22X11 0 4,6 7,5 10,2 mm	CM•E23X11 0 4,6 7,5 10,2 mm	CM•E3•X11 0 4,5 9,0 15,5 mm	CM•E4•X11 0 22° 38° 78°
CM•E21Y11 0 3,6 5,2 6,0 mm	CM•E22Y11 0 6,6 9,5 10,2 mm	CM•E23Y11 0 6,6 9,5 10,2 mm	CM•E3•Y11 0 7,2 11,7 15,5 mm	CM•E4•Y11 0 37° 63° 78°
CM•E21W02 0 2,2 3,8 6,0 mm	CM•E22W02 0 4,3 7,2 10,2 mm	CM•E23W02 0 4,3 7,2 10,2 mm	CM•E3•W02 0 4,0 9,5 15,5 mm	CM•E4•W02 0 21° 37° 78°
CM•E21W20 0 2,1 6,0 mm	CM•E22W20 0 4,1 10,2 mm	CM•E23W20 0 4,1 10,2 mm	CM•E3•W20 0 3,6 15,5 mm	CM•E4•W20 0 20° 78°
CM•E21Z02 0 2,0 3,1 4,7 6,0 mm	CM•E22Z02 0 3,7 5,7 8,6 10,2 mm	CM•E23Z02 0 3,7 5,7 8,6 10,2 mm	CM•E3•Z02 0 3,1 6,1 10,6 15,5 mm	CM•E4•Z02 0 20° 32° 48° 78°
CM•E21X12 0 1,4 2,9 6,0 mm	CM•E22X12 0 3,5 6,1 10,2 mm	CM•E23X12 0 3,5 6,1 10,2 mm	CM•E3•X12 0 4,6 8,4 15,5 mm	CM•E4•X12 0 18° 35° 78°
CM•E21X21 0 1,5 3,0 6,0 mm	CM•E22X21 0 3,6 6,2 10,2 mm	CM•E23X21 0 3,6 6,2 10,2 mm	CM•E3•X21 0 4,7 8,5 15,5 mm	CM•E4•X21 0 19° 36° 78°
CM•E21W03 0 1,4 2,9 6,0 mm	CM•E22W03 0 3,5 6,1 10,2 mm	CM•E23W03 0 3,5 6,1 10,2 mm	CM•E3•W03 0 4,6 8,4 15,5 mm	CM•E4•W03 0 18° 35° 78°
CM•E21W30 0 1,9 6,0 mm	CM•E22W30 0 4,0 10,2 mm	CM•E23W30 0 4,0 10,2 mm	CM•E3•W30 0 4,9 15,5 mm	CM•E4•W30 0 23° 78°
0,285	0,290	0,290	0,305	0,305



Electrical Connection

CM1: three cable inlets for PG 13,5 Cable Gland

CM2: three cable inlets for 1/2" NPT Cable Gland

CM5: three cable inlets for M20 x 1,5 Cable Gland



Operating Head Type

E44 - Ø 50 rubber roller lever

E5 - Adjustable Ø 22 roller lever

E54 - Adjustable Ø 50 rubber roller lever

Conformity / (N.C. contact with positive opening operation)
Max actuation speed [m/s]
Min. force [N] or torque [Nm]: actuation / positive opening operation

1,5
0,15 / 0,30

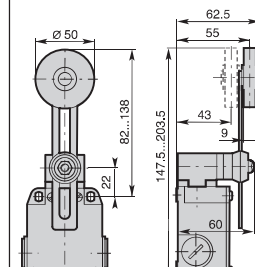
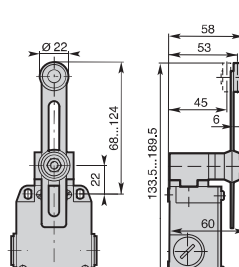
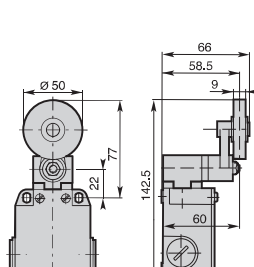
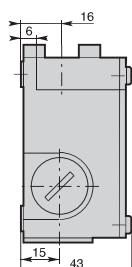
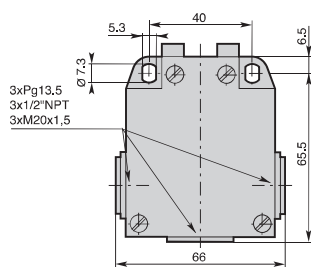
1,5
0,15 / 0,30

1,5
0,15 / 0,30

Additional Technical Datas

Z11 Snap Action Contacts (1NO + 1NC) 	Order Code Operation Diagram 	CM-E5-Z11 	CM-E54Z11
X11 Non overlapping Slow Action Contacts (1NO + 1NC) 	Order Code Operation Diagram 	CM-E5-X11 	CM-E54X11
Y11 Overlapping Slow Action Contacts (1NO + 1NC) 	Order Code Operation Diagram 	CM-E5-Y11 	CM-E54Y11
W02 Slow Action Contacts (2NC) 	Order Code Operation Diagram 	CM-E5-W02 	CM-E54W02
W20 Slow Action Contacts (2NO) 	Order Code Operation Diagram 	CM-E5-W20 	CM-E54W20
Z02 Snap Action Contacts (2NC) 	Order Code Operation Diagram 	CM-E5-Z02 	CM-E54Z02
X12 Non overlapping Slow Action Contacts (1NO + 2NC) 	Order Code Operation Diagram 	CM-E5-X12 	CM-E54X12
X21 Non overlapping Slow Action Contacts (2NO + 1NC) 	Order Code Operation Diagram 	CM-E5-X21 	CM-E54X21
W03 Simultaneous Slow Action Contacts (3NC) 	Order Code Operation Diagram 	CM-E5-W03 	CM-E54W03
W30 Simultaneous Slow Action Contacts (3NO) 	Order Code Operation Diagram 	CM-E5-W30 	CM-E54W30
Weight (packing per unit) [kg]	0,315	0,325	0,330

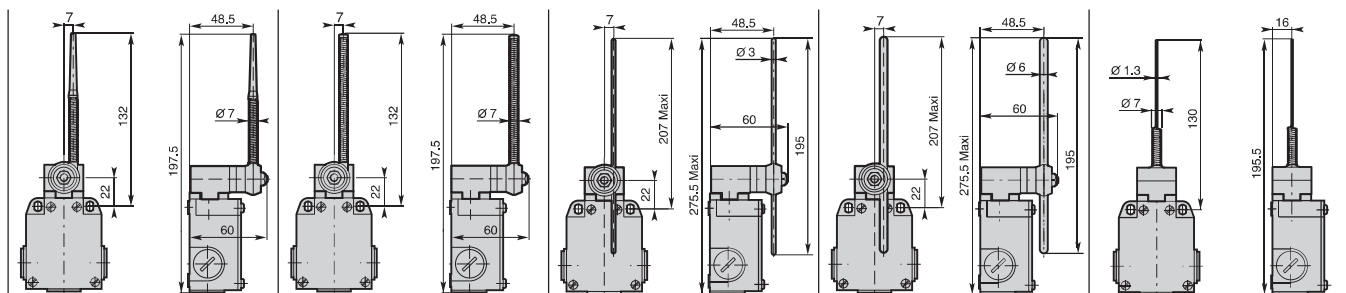
Dimensions (in mm)





E61 - Nylon actuator with stainless steel spring	E62 - Stainless steel spring actuator	E7 - Adjustable rod lever E71: stainless steel rod Ø3 E73: fiberglass rod Ø3 E75: square steel rod 3x3	E7 - Adjustable Ø 6 rod lever F72: nylon rod F74: fiberglass rod	E91 - Stainless steel spring multidirectional actuator
1,5 0,15 / -	1,5 0,15 / -	1,5 0,15 / 0,30	1,5 0,15 / 0,30	1,0 0,18 / -

CM•E61Z11 0 20° 33° 78° 21-22 13-14 13-14	CM•E62Z11 0 20° 33° 78° 21-22 13-14 13-14	CM•E7•Z11 0 20° 33° 49° 78° 21-22 13-14 13-14	CM•E7•Z11 0 20° 33° 49° 78° 21-22 13-14 13-14	CM•E91Z11 0 9° 21° 21-22 13-14 13-14
CM•E61X11 0 22° 78° 21-22 13-14 33°	CM•E62X11 0 22° 78° 21-22 13-14 33°	CM•E7•X11 0 22° 38° 78° 21-22 13-14 33°	CM•E7•X11 0 22° 38° 78° 21-22 13-14 33°	CM•E91X11 0 12° 21-22 13-14 19°
CM•E61Y11 0 37° 78° 21-22 13-14 21°	CM•E62Y11 0 37° 78° 21-22 13-14 21°	CM•E7•Y11 0 37° 53° 78° 21-22 13-14 21°	CM•E7•Y11 0 37° 53° 78° 21-22 13-14 21°	CM•E91Y11 0 23° 21-22 13-14 11°
CM•E61W02 0 21° 78° 11-12 21-22	CM•E62W02 0 21° 78° 11-12 21-22	CM•E7•W02 0 21° 37° 78° 11-12 21-22	CM•E7•W02 0 21° 37° 78° 11-12 21-22	CM•E91W02 0 11° 11-12 21-22
CM•E61W20 0 20° 78° 13-14 23-24	CM•E62W20 0 20° 78° 13-14 23-24	CM•E7•W20 0 20° 78° 13-14 23-24	CM•E7•W20 0 20° 78° 13-14 23-24	CM•E91W20 0 10° 13-14 23-24
CM•E61Z02 0 20° 32° 78° 11-12 21-22 11-12	CM•E62Z02 0 20° 32° 78° 11-12 21-22 11-12	CM•E7•Z02 0 20° 32° 48° 78° 11-12 21-22 11-12	CM•E7•Z02 0 20° 32° 48° 78° 11-12 21-22 11-12	CM•E91Z02 0 9° 20° 11-12 21-22 11-12
CM•E61X12 0 18° 78° 13-14 23-24 37°	CM•E62X12 0 18° 78° 13-14 23-24 37°	CM•E7•X12 0 18° 35° 78° 13-14 23-24 37°	CM•E7•X12 0 18° 35° 78° 13-14 23-24 37°	CM•E91X12 0 12° 13-14 23-24 27°
CM•E61X21 0 19° 78° 13-14 23-24 37°	CM•E62X21 0 19° 78° 13-14 23-24 37°	CM•E7•X21 0 19° 36° 78° 13-14 23-24 37°	CM•E7•X21 0 19° 36° 78° 13-14 23-24 37°	CM•E91X21 0 13° 13-14 23-24 27°
CM•E61W03 0 18° 78° 11-12 21-22 11-12	CM•E62W03 0 18° 78° 11-12 21-22 11-12	CM•E7•W03 0 18° 35° 78° 11-12 21-22 11-12	CM•E7•W03 0 18° 35° 78° 11-12 21-22 11-12	CM•E91W03 0 12° 11-12 21-22 11-12
CM•E61W30 0 23° 78° 13-14 23-24 37°	CM•E62W30 0 23° 78° 13-14 23-24 37°	CM•E7•W30 0 23° 78° 13-14 23-24 37°	CM•E7•W30 0 23° 78° 13-14 23-24 37°	CM•E91W30 0 16° 13-14 23-24 27°
0,330	0,330	0,330	0,330	0,265



Electrical Connection

CM1: three cable inlets for PG 13,5 Cable Gland

CM2: three cable inlets for 1/2" NPT Cable Gland

CM5: three cable inlets for M20 x 1,5 Cable Gland



Operating Head Type

E92 - Multidirectional nylon activator with stainless steel spring

E93 - Stainless steel spring multidirectional actuator

E99 - Pull action with ring

Conformity / (N.C. contact with positive opening operation)
Max actuation speed [m/s]
Min. force [N] or torque [Nm]: actuation / positive opening operation

1,0
0,18 / -

1,0
0,18 / -

0,5
25 / -

Additional Technical Datas

Z11 Snap Action Contacts (1NO + 1NC) 	Order Code Operation Diagram 	CM-E92Z11 	CM-E93Z11 	CM-E99Z11A
X11 Non overlapping Slow Action Contacts (1NO + 1NC) 	Order Code Operation Diagram 	CM-E92X11 	CM-E93X11 	CM-E99X11A
Y11 Overlapping Slow Action Contacts (1NO + 1NC) 	Order Code Operation Diagram 	CM-E92Y11 	CM-E93Y11 	CM-E99Y11A
W02 Slow Action Contacts (2NC) 	Order Code Operation Diagram 	CM-E92W02 	CM-E93W02 	CM-E99W02A
W20 Slow Action Contacts (2NO) 	Order Code Operation Diagram 	CM-E92W20 	CM-E93W20 	CM-E99W20A
Z02 Snap Action Contacts (2NC) 	Order Code Operation Diagram 	CM-E92Z02 	CM-E93Z02 	
X12 Non overlapping Slow Action Contacts (1NO + 2NC) 	Order Code Operation Diagram 	CM-E92X12 	CM-E93X12 	CM-E99X12A
X21 Non overlapping Slow Action Contacts (2NO + 1NC) 	Order Code Operation Diagram 	CM-E92X21 	CM-E93X21 	CM-E99X21A
W03 Simultaneous Slow Action Contacts (3NC) 	Order Code Operation Diagram 	CM-E92W03 	CM-E93W03 	CM-E99W03A
W30 Simultaneous Slow Action Contacts (3NO) 	Order Code Operation Diagram 	CM-E92W30 	CM-E93W30 	CM-E99W30A
Weight (packing per unit)	[kg]	0,265	0,270	0,270

Dimensions (in mm)

