

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 / $\rightarrow$ (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

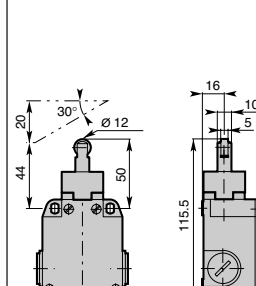
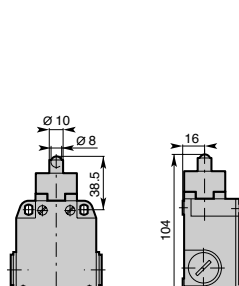
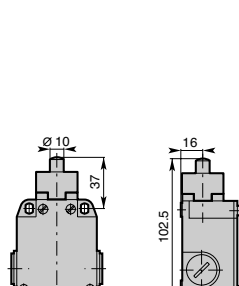
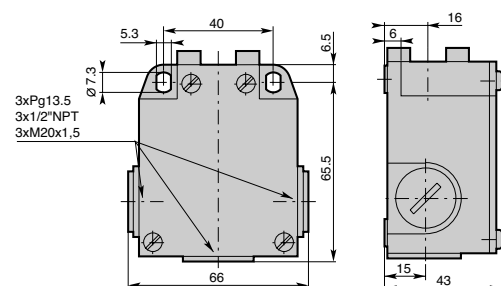
0,5
30 / 45

0,5
22 / 40

Additional Technical Datas

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

E22 - Stainless steel lateral plunger with Ø 12 vertical roller

E23 - Stainless steel lateral plunger with Ø 12 horizontal roller

E3 - One way lever

E4 - Ø 22 roller lever

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

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

0,5
30 / 50

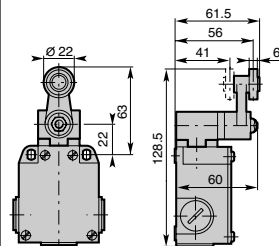
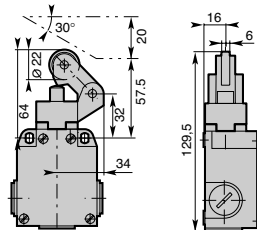
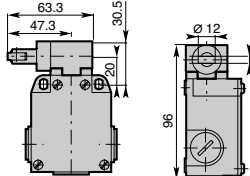
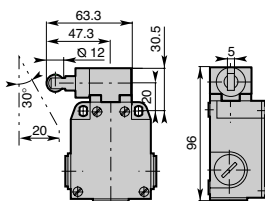
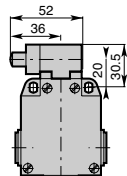
0,5
30 / 50

0,5
30 / 50

1,5
12 / 30

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 3.2	CM-E22X11 0 4.6 7.5 10.2 mm 6.0	CM-E23X11 0 4.6 7.5 10.2 mm 6.0	CM-E3-X11 0 4.5 9.0 15.5 mm 6.1	CM-E4-X11 0 22° 38° 78° 33°
CM-E21Y11 0 3.6 5.2 6.0 mm 2.2	CM-E22Y11 0 6.6 9.5 10.2 mm 4.3	CM-E23Y11 0 6.6 9.5 10.2 mm 4.3	CM-E3-Y11 0 7.2 11.7 15.5 mm 4.0	CM-E4-Y11 0 37° 53° 78° 21°
CM-E21W02 0 2.2 3.8 6.0 mm 11-12 21-22	CM-E22W02 0 4.3 7.2 10.2 mm 11-12 21-22	CM-E23W02 0 4.3 7.2 10.2 mm 11-12 21-22	CM-E3-W02 0 4.0 9.5 15.5 mm 11-12 21-22	CM-E4-W02 0 21° 37° 78° 11-12 21-22
CM-E21W20 0 2.1 6.0 mm 13-14 23-24	CM-E22W20 0 4.1 10.2 mm 13-14 23-24	CM-E23W20 0 4.1 10.2 mm 13-14 23-24	CM-E3-W20 0 3.6 15.5 mm 13-14 23-24	CM-E4-W20 0 20° 78° 13-14 23-24
CM-E21Z02 0 2.0 3.1 4.7 6.0 mm 11-12 21-22	CM-E22Z02 0 3.7 5.7 8.6 10.2 mm 11-12 21-22	CM-E23Z02 0 3.7 5.7 8.6 10.2 mm 11-12 21-22	CM-E3-Z02 0 3.1 6.1 10.6 15.5 mm 11-12 21-22	CM-E4-Z02 0 20° 32° 48° 78° 11-12 21-22
CM-E21X12 0 1.4 2.9 6.0 mm 13-14 23-24	CM-E22X12 0 3.5 6.1 10.2 mm 13-14 23-24	CM-E23X12 0 3.5 6.1 10.2 mm 13-14 23-24	CM-E3-X12 0 4.6 8.4 15.5 mm 13-14 23-24	CM-E4-X12 0 18° 35° 78° 13-14 23-24
CM-E21X21 0 1.5 3.0 6.0 mm 13-14 23-24	CM-E22X21 0 3.6 6.2 10.2 mm 13-14 23-24	CM-E23X21 0 3.6 6.2 10.2 mm 13-14 23-24	CM-E3-X21 0 4.7 8.5 15.5 mm 13-14 23-24	CM-E4-X21 0 19° 36° 78° 13-14 23-24
CM-E21W03 0 1.4 2.9 6.0 mm 11-12 21-22	CM-E22W03 0 3.5 6.1 10.2 mm 11-12 21-22	CM-E23W03 0 3.5 6.1 10.2 mm 11-12 21-22	CM-E3-W03 0 4.6 8.4 15.5 mm 11-12 21-22	CM-E4-W03 0 18° 35° 78° 11-12 21-22
CM-E21W30 0 1.9 6.0 mm 13-14 23-24	CM-E22W30 0 4.0 10.2 mm 13-14 23-24	CM-E23W30 0 4.0 10.2 mm 13-14 23-24	CM-E3-W30 0 4.9 15.5 mm 13-14 23-24	CM-E4-W30 0 23° 78° 13-14 23-24
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

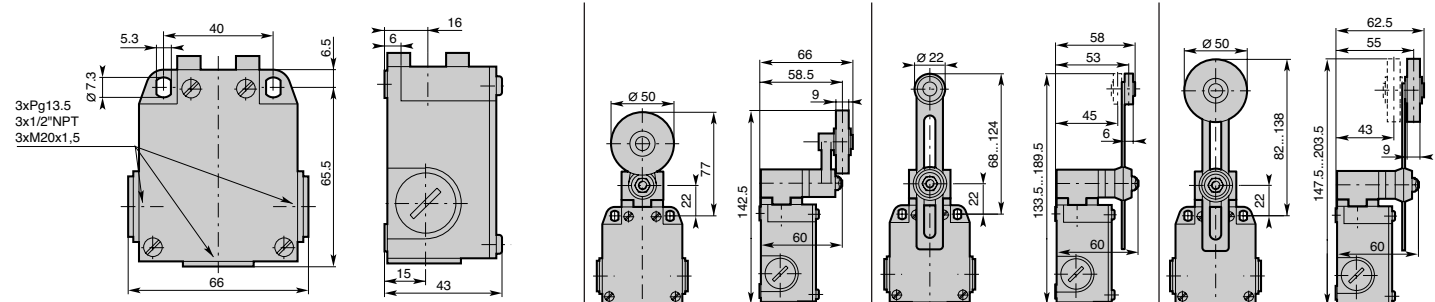
1,5
0,15 / 0,30

1,5
0,15 / 0,30

Additional Technical Datas

Z11 Snap Action Contacts (1NO + 1NC)		Order Code Operation Diagram	CM-E44Z11 	CM-E5-Z11 	CM-E54Z11
X11 Non overlapping Slow Action Contacts (1NO + 1NC)		Order Code Operation Diagram	CM-E44X11 	CM-E5-X11 	CM-E54X11
Y11 Overlapping Slow Action Contacts (1NO + 1NC)		Order Code Operation Diagram	CM-E44Y11 	CM-E5-Y11 	CM-E54Y11
W02 Slow Action Contacts (2NC)		Order Code Operation Diagram	CM-E44W02 	CM-E5-W02 	CM-E54W02
W20 Slow Action Contacts (2NO)		Order Code Operation Diagram	CM-E44W20 	CM-E5-W20 	CM-E54W20
Z02 Snap Action Contacts (2NC)		Order Code Operation Diagram	CM-E44Z02 	CM-E5-Z02 	CM-E54Z02
X12 Non overlapping Slow Action Contacts (1NO + 2NC)		Order Code Operation Diagram	CM-E44X12 	CM-E5-X12 	CM-E54X12
X21 Non overlapping Slow Action Contacts (2NO + 1NC)		Order Code Operation Diagram	CM-E44X21 	CM-E5-X21 	CM-E54X21
W03 Simultaneous Slow Action Contacts (3NC)		Order Code Operation Diagram	CM-E44W03 	CM-E5-W03 	CM-E54W03
W30 Simultaneous Slow Action Contacts (3NO)		Order Code Operation Diagram	CM-E44W30 	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

1,5
0,15 / -



E62 - Stainless steel spring actuator

1,5
0,15 / -



E7 - Adjustable rod lever
E71: stainless steel rod Ø3
E73: fiberglass rod Ø3
E75: square steel rod 3x3

1,5
0,15 / 0,30



E7 - Adjustable Ø 6 rod lever
F72: nylon rod
F74: fiberglass rod

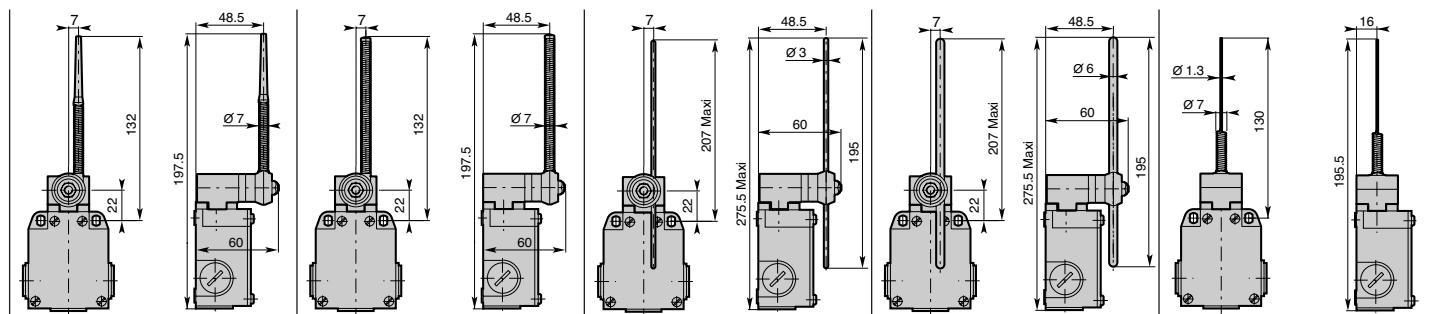
1,5
0,15 / 0,30



E91 - Stainless steel spring multidirectional actuator

1,0
0,18 / -

CM-E61Z11 	CM-E62Z11 	CM-E7-Z11 	CM-E7-Z11 	CM-E91Z11
CM-E61X11 	CM-E62X11 	CM-E7-X11 	CM-E7-X11 	CM-E91X11
CM-E61Y11 	CM-E62Y11 	CM-E7-Y11 	CM-E7-Y11 	CM-E91Y11
CM-E61W02 	CM-E62W02 	CM-E7-W02 	CM-E7-W02 	CM-E91W02
CM-E61W20 	CM-E62W20 	CM-E7-W20 	CM-E7-W20 	CM-E91W20
CM-E61Z02 	CM-E62Z02 	CM-E7-Z02 	CM-E7-Z02 	CM-E91Z02
CM-E61X12 	CM-E62X12 	CM-E7-X12 	CM-E7-X12 	CM-E91X12
CM-E61X21 	CM-E62X21 	CM-E7-X21 	CM-E7-X21 	CM-E91X21
CM-E61W03 	CM-E62W03 	CM-E7-W03 	CM-E7-W03 	CM-E91W03
CM-E61W30 	CM-E62W30 	CM-E7-W30 	CM-E7-W30 	CM-E91W30
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 / $\ominus$ (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 / -

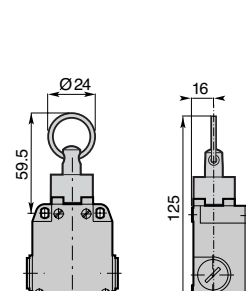
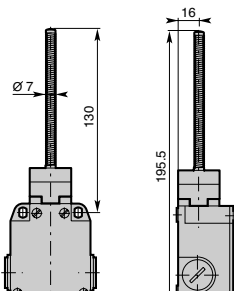
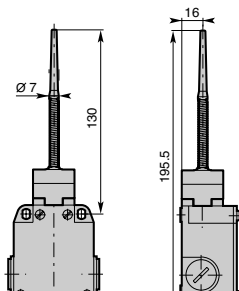
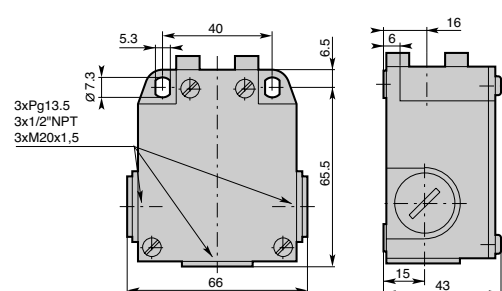
1,0
0,18 / -

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)



NOTES