

## 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 /  $\ominus$  (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

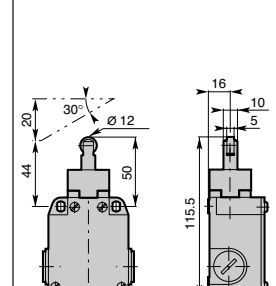
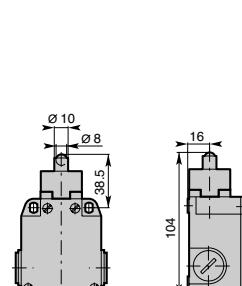
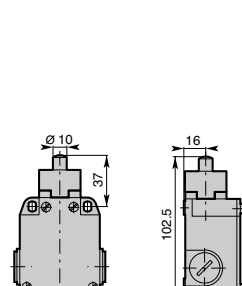
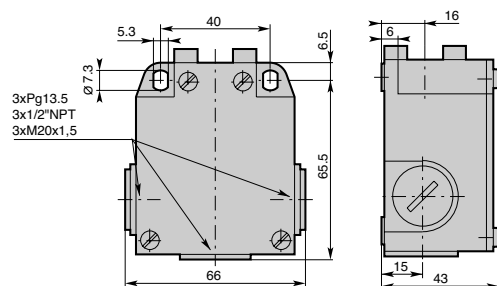
0,5  
30 / 45

0,5  
22 / 40

## Additional Technical Datas

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

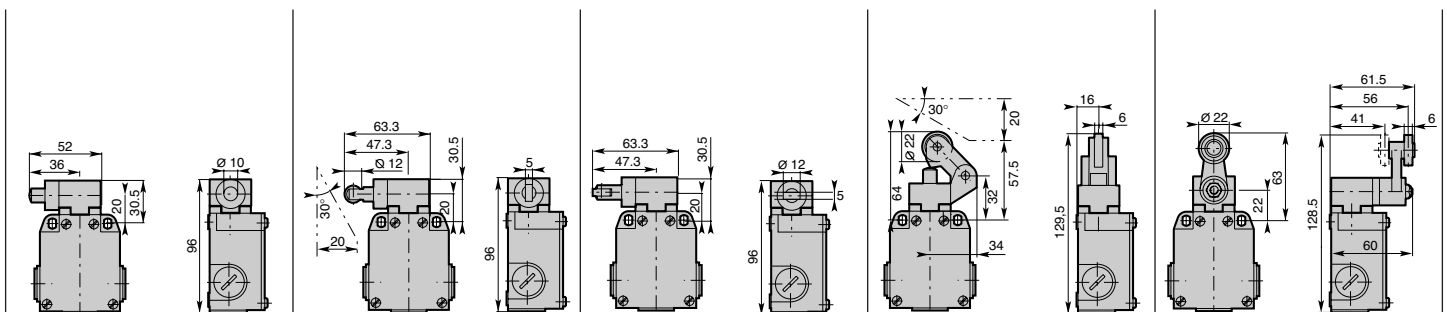
## Dimensions (in mm)





<b>E21 - Stainless steel lateral plain plunger</b>	<b>E22 - Stainless steel lateral plunger with Ø 12 vertical roller</b>	<b>E23 - Stainless steel lateral plunger with Ø 12 horizontal roller</b>	<b>E3 - One way lever</b>	<b>E4 - Ø 22 roller lever</b>
0,5 30 / 50	0,5 30 / 50	0,5 30 / 50	1,5 12 / 30	1,5 0,15 / 0,30

<b>CM-E21Z11</b> 	<b>CM-E22Z11</b> 	<b>CM-E23Z11</b> 	<b>CM-E3-Z11</b> 	<b>CM-E4-Z11</b> 
<b>CM-E21X11</b> 	<b>CM-E22X11</b> 	<b>CM-E23X11</b> 	<b>CM-E3-X11</b> 	<b>CM-E4-X11</b> 
<b>CM-E21Y11</b> 	<b>CM-E22Y11</b> 	<b>CM-E23Y11</b> 	<b>CM-E3-Y11</b> 	<b>CM-E4-Y11</b> 
<b>CM-E21W02</b> 	<b>CM-E22W02</b> 	<b>CM-E23W02</b> 	<b>CM-E3-W02</b> 	<b>CM-E4-W02</b> 
<b>CM-E21W20</b> 	<b>CM-E22W20</b> 	<b>CM-E23W20</b> 	<b>CM-E3-W20</b> 	<b>CM-E4-W20</b> 
<b>CM-E21Z02</b> 	<b>CM-E22Z02</b> 	<b>CM-E23Z02</b> 	<b>CM-E3-Z02</b> 	<b>CM-E4-Z02</b> 
<b>CM-E21X12</b> 	<b>CM-E22X12</b> 	<b>CM-E23X12</b> 	<b>CM-E3-X12</b> 	<b>CM-E4-X12</b> 
<b>CM-E21X21</b> 	<b>CM-E22X21</b> 	<b>CM-E23X21</b> 	<b>CM-E3-X21</b> 	<b>CM-E4-X21</b> 
<b>CM-E21W03</b> 	<b>CM-E22W03</b> 	<b>CM-E23W03</b> 	<b>CM-E3-W03</b> 	<b>CM-E4-W03</b> 
<b>CM-E21W30</b> 	<b>CM-E22W30</b> 	<b>CM-E23W30</b> 	<b>CM-E3-W30</b> 	<b>CM-E4-W30</b> 
<b>0,285</b>	<b>0,290</b>	<b>0,290</b>	<b>0,305</b>	<b>0,305</b>



### 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 /  $\rightarrow$  (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

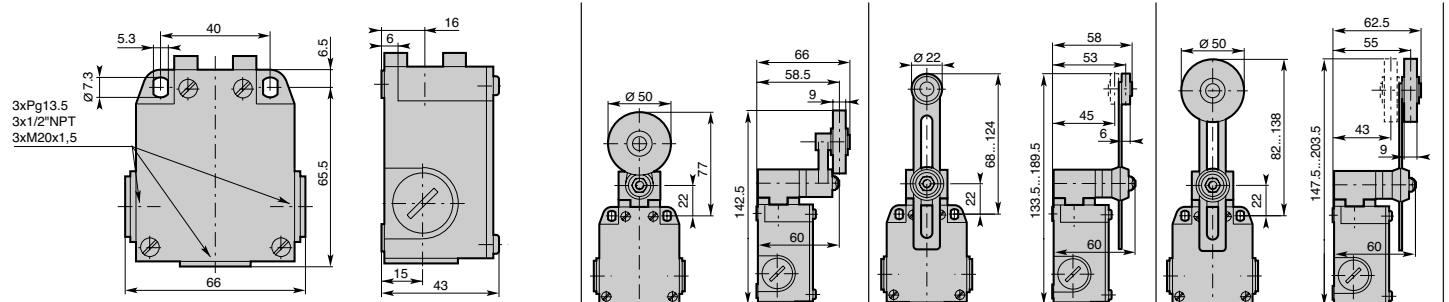
1,5  
0,15 / 0,30

1,5  
0,15 / 0,30

### Additional Technical Datas

			<b>E44 - Ø 50 rubber roller lever</b>	<b>E5 - Adjustable Ø 22 roller lever</b>	<b>E54 - Adjustable Ø 50 rubber roller lever</b>
<b>Z11</b> Snap Action Contacts (1NO + 1NC)		<b>Order Code</b> Operation Diagram	<b>CM-E44Z11</b> 	<b>CM-E5-Z11</b> 	<b>CM-E54Z11</b> 
<b>X11</b> Non overlapping Slow Action Contacts (1NO + 1NC)		<b>Order Code</b> Operation Diagram	<b>CM-E44X11</b> 	<b>CM-E5-X11</b> 	<b>CM-E54X11</b> 
<b>Y11</b> Overlapping Slow Action Contacts (1NO + 1NC)		<b>Order Code</b> Operation Diagram	<b>CM-E44Y11</b> 	<b>CM-E5-Y11</b> 	<b>CM-E54Y11</b> 
<b>W02</b> Slow Action Contacts (2NC)		<b>Order Code</b> Operation Diagram	<b>CM-E44W02</b> 	<b>CM-E5-W02</b> 	<b>CM-E54W02</b> 
<b>W20</b> Slow Action Contacts (2NO)		<b>Order Code</b> Operation Diagram	<b>CM-E44W20</b> 	<b>CM-E5-W20</b> 	<b>CM-E54W20</b> 
<b>Z02</b> Snap Action Contacts (2NC)		<b>Order Code</b> Operation Diagram	<b>CM-E44Z02</b> 	<b>CM-E5-Z02</b> 	<b>CM-E54Z02</b> 
<b>X12</b> Non overlapping Slow Action Contacts (1NO + 2NC)		<b>Order Code</b> Operation Diagram	<b>CM-E44X12</b> 	<b>CM-E5-X12</b> 	<b>CM-E54X12</b> 
<b>X21</b> Non overlapping Slow Action Contacts (2NO + 1NC)		<b>Order Code</b> Operation Diagram	<b>CM-E44X21</b> 	<b>CM-E5-X21</b> 	<b>CM-E54X21</b> 
<b>W03</b> Simultaneous Slow Action Contacts (3NC)		<b>Order Code</b> Operation Diagram	<b>CM-E44W03</b> 	<b>CM-E5-W03</b> 	<b>CM-E54W03</b> 
<b>W30</b> Simultaneous Slow Action Contacts (3NO)		<b>Order Code</b> Operation Diagram	<b>CM-E44W30</b> 	<b>CM-E5-W30</b> 	<b>CM-E54W30</b> 
<b>Weight (packing per unit)</b>		<b>[kg]</b>	<b>0,315</b>	<b>0,325</b>	<b>0,330</b>

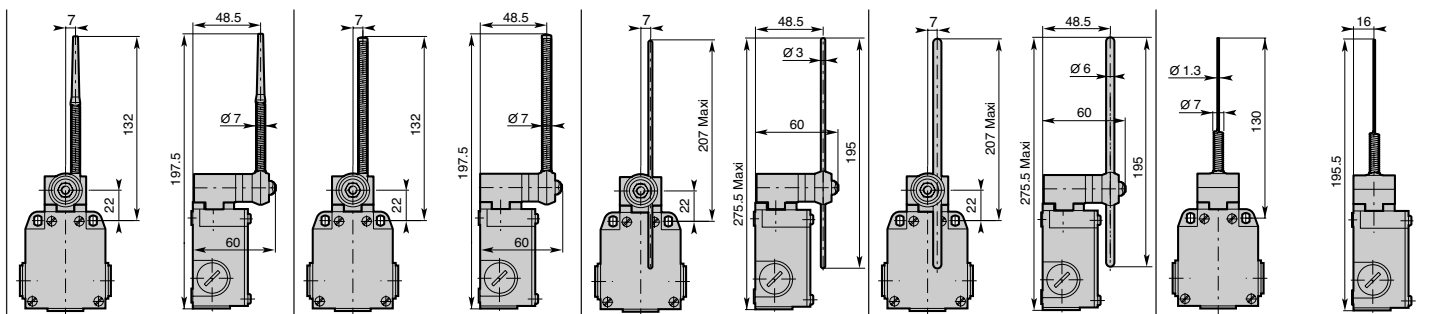
### Dimensions (in mm)





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

<b>CM•E61Z11</b> 0 20° 33° 78° 21-22 13-14 13-14	<b>CM•E62Z11</b> 0 20° 33° 78° 21-22 13-14 13-14	<b>CM•E7•Z11</b> 0 20° 33° 49° 78° 21-22 13-14 13-14	<b>CM•E7•Z11</b> 0 20° 33° 49° 78° 21-22 13-14 13-14	<b>CM•E91Z11</b> 0 9° 21° 21-22 13-14 13-14
<b>CM•E61X11</b> 0 22° 78° 21-22 13-14 33°	<b>CM•E62X11</b> 0 22° 78° 21-22 13-14 33°	<b>CM•E7•X11</b> 0 22° 38° 78° 21-22 13-14 33°	<b>CM•E7•X11</b> 0 22° 38° 78° 21-22 13-14 33°	<b>CM•E91X11</b> 0 12° 21-22 13-14 19°
<b>CM•E61Y11</b> 0 37° 78° 21-22 13-14 21°	<b>CM•E62Y11</b> 0 37° 78° 21-22 13-14 21°	<b>CM•E7•Y11</b> 0 37° 53° 78° 21-22 13-14 21°	<b>CM•E7•Y11</b> 0 37° 53° 78° 21-22 13-14 21°	<b>CM•E91Y11</b> 0 23° 21-22 13-14 11°
<b>CM•E61W02</b> 0 21° 78° 11-12 21-22	<b>CM•E62W02</b> 0 21° 78° 11-12 21-22	<b>CM•E7•W02</b> 0 21° 37° 78° 11-12 21-22	<b>CM•E7•W02</b> 0 21° 37° 78° 11-12 21-22	<b>CM•E91W02</b> 0 11° 11-12 21-22
<b>CM•E61W20</b> 0 20° 78° 13-14 23-24	<b>CM•E62W20</b> 0 20° 78° 13-14 23-24	<b>CM•E7•W20</b> 0 20° 78° 13-14 23-24	<b>CM•E7•W20</b> 0 20° 78° 13-14 23-24	<b>CM•E91W20</b> 0 10° 13-14 23-24
<b>CM•E61Z02</b> 0 20° 32° 78° 11-12 21-22 11-12 21-22	<b>CM•E62Z02</b> 0 20° 32° 78° 11-12 21-22 11-12 21-22	<b>CM•E7•Z02</b> 0 20° 32° 48° 78° 21-25 11-12 21-25	<b>CM•E7•Z02</b> 0 20° 32° 48° 78° 21-25 11-12 21-25	<b>CM•E91Z02</b> 0 9° 20° 21-25 11-12 21-25
<b>CM•E61X12</b> 0 18° 78° 21-25 13-14 37°	<b>CM•E62X12</b> 0 18° 78° 21-25 13-14 37°	<b>CM•E7•X12</b> 0 18° 35° 78° 21-25 13-14 37°	<b>CM•E7•X12</b> 0 18° 35° 78° 21-25 13-14 37°	<b>CM•E91X12</b> 0 12° 21-25 13-14 27°
<b>CM•E61X21</b> 0 19° 78° 31-32 13-14 23-24 37°	<b>CM•E62X21</b> 0 19° 78° 31-32 13-14 23-24 37°	<b>CM•E7•X21</b> 0 19° 36° 78° 31-32 13-14 23-24 37°	<b>CM•E7•X21</b> 0 19° 36° 78° 31-32 13-14 23-24 37°	<b>CM•E91X21</b> 0 13° 31-32 13-14 23-24 27°
<b>CM•E61W03</b> 0 18° 78° 21-25 31-32	<b>CM•E62W03</b> 0 18° 78° 21-25 31-32	<b>CM•E7•W03</b> 0 18° 35° 78° 11-12 21-25 31-32	<b>CM•E7•W03</b> 0 18° 35° 78° 11-12 21-25 31-32	<b>CM•E91W03</b> 0 12° 11-12 21-25 31-32
<b>CM•E61W30</b> 0 23° 78° 13-14 23-24	<b>CM•E62W30</b> 0 23° 78° 13-14 23-24	<b>CM•E7•W30</b> 0 23° 78° 13-14 23-24	<b>CM•E7•W30</b> 0 23° 78° 13-14 23-24	<b>CM•E91W30</b> 0 16° 13-14 23-24
<b>0,330</b>	<b>0,330</b>	<b>0,330</b>	<b>0,330</b>	<b>0,265</b>



### 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 / -

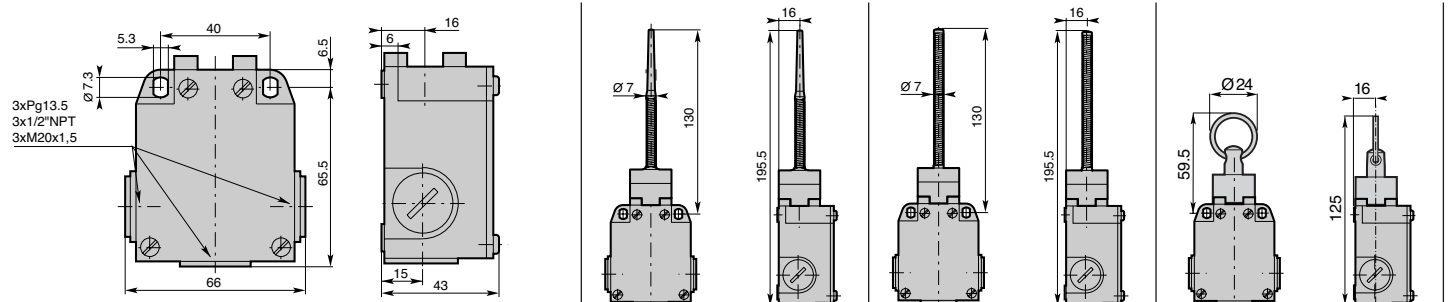
1,0  
0,18 / -

0,5  
25 / -

### Additional Technical Datas

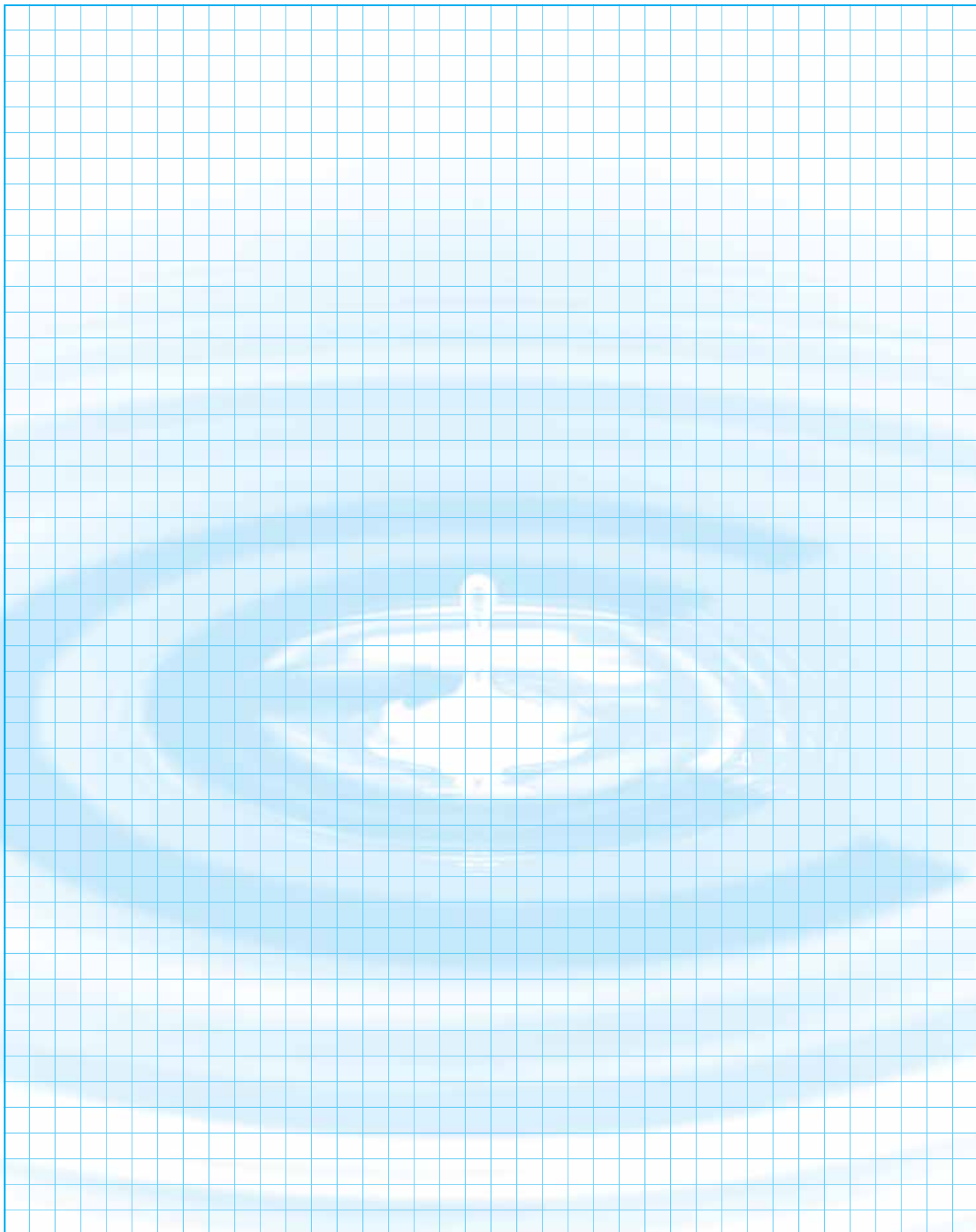
<b>Z11</b> Snap Action Contacts (1NO + 1NC)		<b>Order Code</b> Operation Diagram	<b>CM•E92Z11</b> 	<b>CM•E93Z11</b> 	<b>CM•E99Z11A</b> 
<b>X11</b> Non overlapping Slow Action Contacts (1NO + 1NC)		<b>Order Code</b> Operation Diagram	<b>CM•E92X11</b> 	<b>CM•E93X11</b> 	<b>CM•E99X11A</b> 
<b>Y11</b> Overlapping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

### Dimensions (in mm)





## NOTES

A large rectangular area filled with a light blue grid pattern, intended for writing notes. The grid lines are thin and evenly spaced. The background of the grid is a light blue gradient, matching the overall page design.