

Electrical Connection

BM1: one cable inlet for PG 13,5 Cable Gland

BM2: one cable inlet for 1/2" NPT Cable Gland

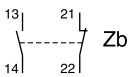
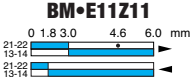
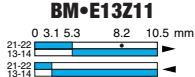
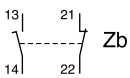
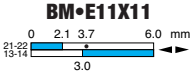
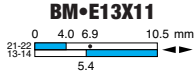
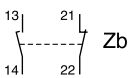
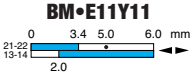
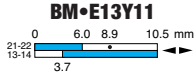
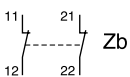
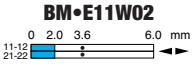
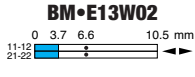
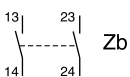
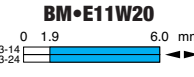
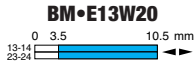
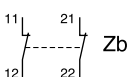
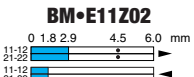
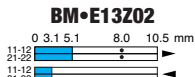
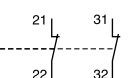
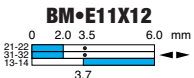
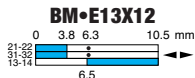
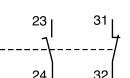
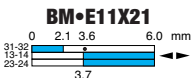
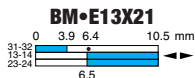
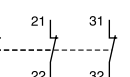
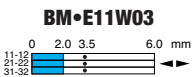

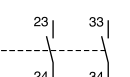
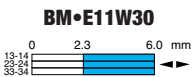

BM5: one cable inlet for M20 x 1,5 Cable Gland



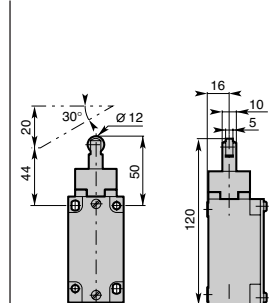
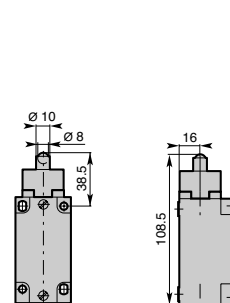
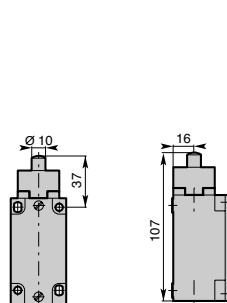
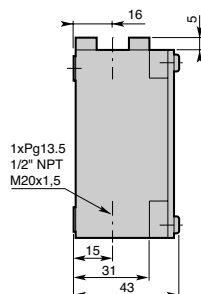
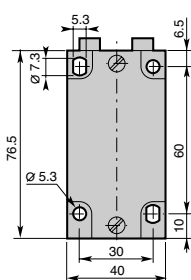
Operating Head Type

	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)	EN 50041	EN 50041	EN 50041
Max actuation speed [m/s]	0,5	0,5	0,5
Min. force [N] or torque [Nm]: actuation / positive opening operation	30 / 45	30 / 45	22 / 40

Additional Technical Datas

	E11 - Stainless steel plain plunger	E12 - Stainless steel ball plunger	E13 - Stainless steel Ø 12 roller plunger
Z11 Snap Action Contacts (1NO + 1NC)	 Order Code Operation Diagram	 BM•E11Z11	 BM•E13Z11
X11 Non overlapping Slow Action Contacts (1NO + 1NC)	 Order Code Operation Diagram	 BM•E11X11	 BM•E13X11
Y11 Overlapping Slow Action Contacts (1NO + 1NC)	 Order Code Operation Diagram	 BM•E11Y11	 BM•E13Y11
W02 Slow Action Contacts (2NC)	 Order Code Operation Diagram	 BM•E11W02	 BM•E13W02
W20 Slow Action Contacts (2NO)	 Order Code Operation Diagram	 BM•E11W20	 BM•E13W20
Z02 Snap Action Contacts (2NC)	 Order Code Operation Diagram	 BM•E11Z02	 BM•E13Z02
X12 Non overlapping Slow Action Contacts (1NO + 2NC)	 Order Code Operation Diagram	 BM•E11X12	 BM•E13X12
X21 Non overlapping Slow Action Contacts (2NO + 1NC)	 Order Code Operation Diagram	 BM•E11X21	 BM•E13X21
W03 Simultaneous Slow Action Contacts (3NC)	 Order Code Operation Diagram	 BM•E11W03	 BM•E13W03
W30 Simultaneous Slow Action Contacts (3NO)	 Order Code Operation Diagram	 BM•E11W30	 BM•E13W30
Weight (packing per unit)	[kg]	0,240	0,245

Dimensions (in mm)



Electrical Connection

BM1: one cable inlet for PG 13,5 Cable Gland

BM2: one cable inlet for 1/2" NPT Cable Gland

BM5: one cable inlet for M20 x 1,5 Cable Gland



Operating Head Type

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

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

EN 50041

0,5
30 / 50



EN 50041

0,5
30 / 50


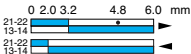

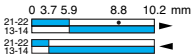

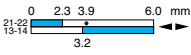
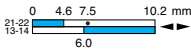
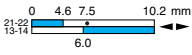

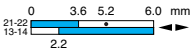
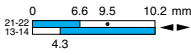
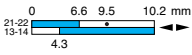


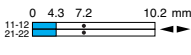
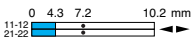







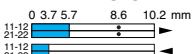

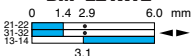
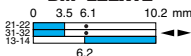
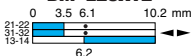
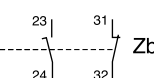
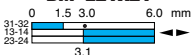
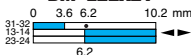
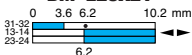
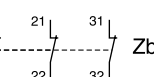
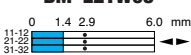
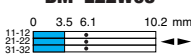
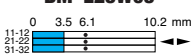
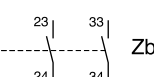
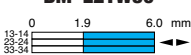
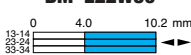
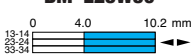


EN 50041

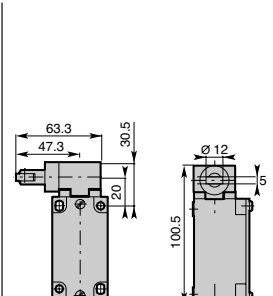
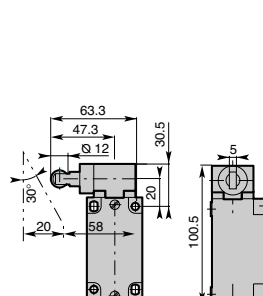
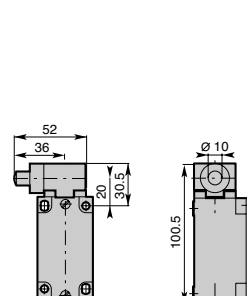
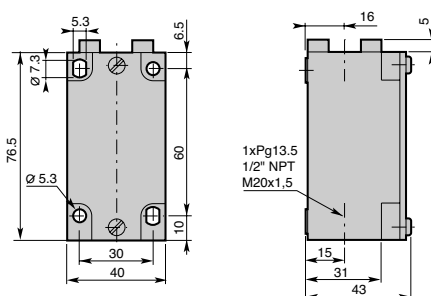
0,5
30 / 50



Additional Technical Datas

Z11 Snap Action Contacts (1NO + 1NC)		Order Code	BM-E21Z11		BM-E22Z11		BM-E23Z11	
X11 Non overlapping Slow Action Contacts (1NO + 1NC)		Order Code	BM-E21X11		BM-E22X11		BM-E23X11	
Y11 Overlapping Slow Action Contacts (1NO + 1NC)		Order Code	BM-E21Y11		BM-E22Y11		BM-E23Y11	
W02 Slow Action Contacts (2NC)		Order Code	BM-E21W02		BM-E22W02		BM-E23W02	
W20 Slow Action Contacts (2NO)		Order Code	BM-E21W20		BM-E22W20		BM-E23W20	
Z02 Snap Action Contacts (2NC)		Order Code	BM-E21Z02		BM-E22Z02		BM-E23Z02	
X12 Non overlapping Slow Action Contacts (1NO + 2NC)		Order Code	BM-E21X12		BM-E22X12		BM-E23X12	
X21 Non overlapping Slow Action Contacts (2NO + 1NC)		Order Code	BM-E21X21		BM-E22X21		BM-E23X21	
W03 Simultaneous Slow Action Contacts (3NC)		Order Code	BM-E21W03		BM-E22W03		BM-E23W03	
W30 Simultaneous Slow Action Contacts (3NO)		Order Code	BM-E21W30		BM-E22W30		BM-E23W30	
Weight (packing per unit)		[kg]	0,260	0,265	0,265			

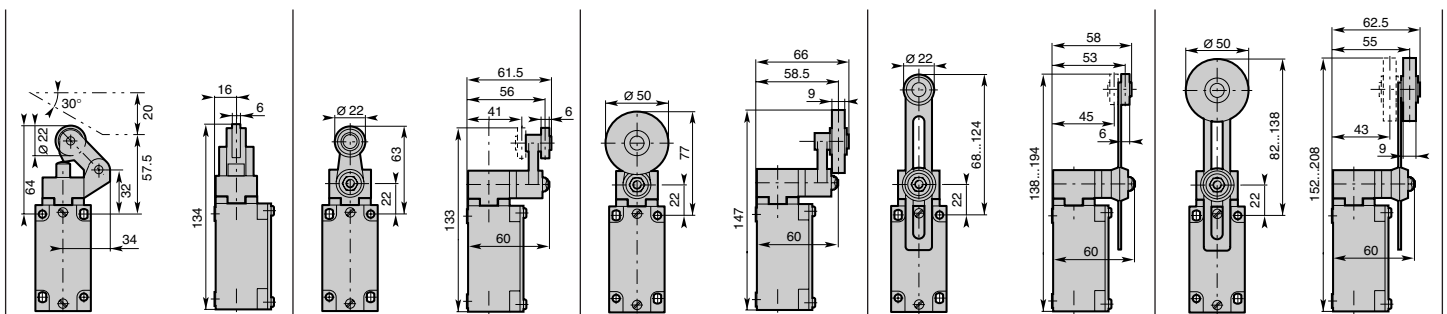
Dimensions (in mm)





E3• - One way lever	E4• - Ø 22 roller lever	E44 - Ø 50 rubber roller lever	E5• - Adjustable Ø 22 roller lever	E54 - Adjustable Ø 50 rubber 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		E51: nylon roller E52: stainless steel roller E53: steel ball bearing	
1,5 12 / 40	EN 50041 1,5 0,15 / 0,30	1,5 0,15 / 0,30	1,5 0,15 / 0,30	1,5 0,15 / 0,30

BM•E3•Z11 0 3.1 6.3 10.8 15.5 mm 21-22 13-14 13-14	BM•E4•Z11 0 20° 33° 49° 78° 21-22 13-14 13-14	BM•E44Z11 0 20° 33° 49° 78° 21-22 13-14 13-14	BM•E5•Z11 0 20° 33° 49° 78° 21-22 13-14 13-14	BM•E54Z11 0 20° 33° 49° 78° 21-22 13-14 13-14
BM•E3•X11 0 4.5 9.0 15.5 mm 21-22 13-14 6.1	BM•E4•X11 0 22° 38° 78° 21-22 13-14 33°	BM•E44X11 0 22° 38° 78° 21-22 13-14 33°	BM•E5•X11 0 22° 38° 78° 21-22 13-14 33°	BM•E54X11 0 22° 38° 78° 21-22 13-14 33°
BM•E3•Y11 0 7.2 11.7 15.5 mm 21-22 13-14 4.0	BM•E4•Y11 0 37° 53° 78° 21-22 13-14 21°	BM•E44Y11 0 37° 53° 78° 21-22 13-14 21°	BM•E5•Y11 0 37° 53° 78° 21-22 13-14 21°	BM•E54Y11 0 37° 53° 78° 21-22 13-14 21°
BM•E3•W02 0 4.0 9.5 15.5 mm 11-12 21-22	BM•E4•W02 0 21° 37° 78° 11-12 21-22	BM•E44W02 0 21° 37° 78° 11-12 21-22	BM•E5•W02 0 21° 37° 78° 11-12 21-22	BM•E54W02 0 21° 37° 78° 11-12 21-22
BM•E3•W20 0 3.6 15.5 mm 13-14 23-24	BM•E4•W20 0 20° 78° 13-14 23-24	BM•E44W20 0 20° 78° 13-14 23-24	BM•E5•W20 0 20° 78° 13-14 23-24	BM•E54W20 0 20° 78° 13-14 23-24
BM•E3•Z02 0 3.1 6.1 10.6 15.5 mm 11-12 21-22 11-12 21-22	BM•E4•Z02 0 20° 32° 48° 78° 11-12 21-22 11-12 21-22	BM•E44Z02 0 20° 32° 48° 78° 11-12 21-22 11-12 21-22	BM•E5•Z02 0 20° 32° 48° 78° 11-12 21-22 11-12 21-22	BM•E54Z02 0 20° 32° 48° 78° 11-12 21-22 11-12 21-22
BM•E3•X12 0 4.6 8.4 15.5 mm 21-22 13-14 8.6	BM•E4•X12 0 18° 35° 78° 21-22 13-14 37°	BM•E44X12 0 18° 35° 78° 21-22 13-14 37°	BM•E5•X12 0 18° 35° 78° 21-22 13-14 37°	BM•E54X12 0 18° 35° 78° 21-22 13-14 37°
BM•E3•X21 0 4.7 8.5 15.5 mm 31-32 13-14 23-24 8.6	BM•E4•X21 0 19° 36° 78° 31-32 13-14 23-24 37°	BM•E44X21 0 19° 36° 78° 31-32 13-14 23-24 37°	BM•E5•X21 0 19° 36° 78° 31-32 13-14 23-24 37°	BM•E54X21 0 19° 36° 78° 31-32 13-14 23-24 37°
BM•E3•W03 0 4.6 8.4 15.5 mm 11-12 21-22 31-32 31-32 21-22	BM•E4•W03 0 18° 35° 78° 11-12 21-22 31-32 31-32 21-22	BM•E44W03 0 18° 35° 78° 11-12 21-22 31-32 31-32 21-22	BM•E5•W03 0 18° 35° 78° 11-12 21-22 31-32 31-32 21-22	BM•E54W03 0 18° 35° 78° 11-12 21-22 31-32 31-32 21-22
BM•E3•W30 0 4.9 15.5 mm 13-14 23-24	BM•E4•W30 0 23° 78° 13-14 23-24	BM•E44W30 0 23° 78° 13-14 23-24	BM•E5•W30 0 23° 78° 13-14 23-24	BM•E54W30 0 23° 78° 13-14 23-24
0,280	0,300	0,315	0,320	0,325



Electrical Connection

BM1: one cable inlet for PG 13,5 Cable Gland

BM2: one cable inlet for 1/2" NPT Cable Gland

BM5: one cable inlet for M20 x 1,5 Cable Gland



Operating Head Type

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

Conformity / \ominus (N.C. contact with positive opening operation)

Max actuation speed [m/s]

Min. force [N] or torque [Nm]: actuation / positive opening operation

1,5
0,15 / -

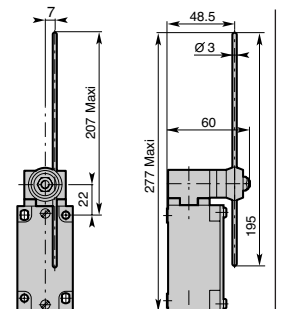
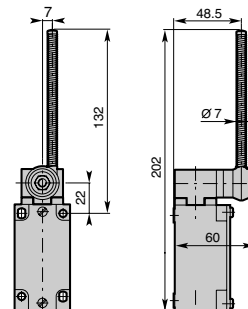
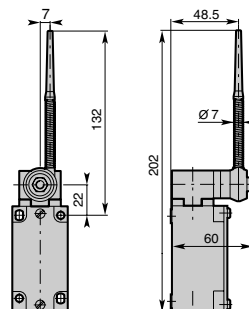
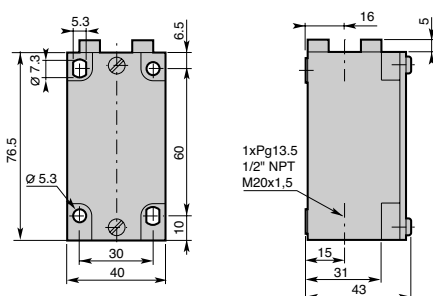
1,5
0,15 / -

1,5
0,15 / 0,30 \ominus

Additional Technical Datas

			E61 - Nylon actuator with stainless steel spring	E62 - Stainless steel spring actuator	E7 - Adjustable rod lever
Z11 Snap Action Contacts (1NO + 1NC)		Order Code Operation Diagram	BM-E61Z11 	BM-E62Z11 	BM-E7-Z11
X11 Non overlapping Slow Action Contacts (1NO + 1NC)		Order Code Operation Diagram	BM-E61X11 	BM-E62X11 	BM-E7-X11
Y11 Overlapping Slow Action Contacts (1NO + 1NC)		Order Code Operation Diagram	BM-E61Y11 	BM-E62Y11 	BM-E7-Y11
W02 Slow Action Contacts (2NC)		Order Code Operation Diagram	BM-E61W02 	BM-E62W02 	BM-E7-W02
W20 Slow Action Contacts (2NO)		Order Code Operation Diagram	BM-E61W20 	BM-E62W20 	BM-E7-W20
Z02 Snap Action Contacts (2NC)		Order Code Operation Diagram	BM-E61Z02 	BM-E62Z02 	BM-E7-Z02
X12 Non overlapping Slow Action Contacts (1NO + 2NC)		Order Code Operation Diagram	BM-E61X12 	BM-E62X12 	BM-E7-X12
X21 Non overlapping Slow Action Contacts (2NO + 1NC)		Order Code Operation Diagram	BM-E61X21 	BM-E62X21 	BM-E7-X21
W03 Simultaneous Slow Action Contacts (3NC)		Order Code Operation Diagram	BM-E61W03 	BM-E62W03 	BM-E7-W03
W30 Simultaneous Slow Action Contacts (3NO)		Order Code Operation Diagram	BM-E61W30 	BM-E62W30 	BM-E7-W30
Weight (packing per unit)	[kg]		0,305	0,310	0,305

Dimensions (in mm)





E7 - Adjustable rod lever

E72: nylon rod
E74: fiberglass rod

EN 50041

1,5
0,15 / 0,30



E91 - Stainless steel spring multidirectional actuator

1,0
0,18 / -



E92 - Multidirectional nylon actuator with stainless steel spring

1,0
0,18 / -



E93 - Stainless steel spring multidirectional actuator

1,0
0,18 / -



E99 - Pull action with ring

0,5
25 / -

 BM-E7-Z11 0 20° 33° 49° 78° 21-22 13-14 21-22 13-14	 BM-E91Z11 0 9° 21° 21-22 13-14 21-22 13-14	 BM-E92Z11 0 9° 21° 21-22 13-14 21-22 13-14	 BM-E93Z11 0 9° 21° 21-22 13-14 21-22 13-14	 BM-E99Z11A 0 3.2 4.4 5.0 mm 21-22 13-14 21-22 13-14
 BM-E7-X11 0 22° 38° 78° 21-22 13-14 33°	 BM-E91X11 0 12° 21-22 13-14 19°	 BM-E92X11 0 12° 21-22 13-14 19°	 BM-E93X11 0 12° 21-22 13-14 19°	 BM-E99X11A 0 2.5 5.0 mm 21-22 13-14 3.2
 BM-E7-Y11 0 37° 53° 78° 21-22 13-14 21°	 BM-E91Y11 0 23° 21-22 13-14 11°	 BM-E92Y11 0 23° 21-22 13-14 11°	 BM-E93Y11 0 23° 21-22 13-14 11°	 BM-E99Y11A 0 3.4 5.0 mm 21-22 13-14 2.1
 BM-E7-W02 0 21° 37° 78° 11-12 21-22	 BM-E91W02 0 11° 11-12 21-22	 BM-E92W02 0 11° 11-12 21-22	 BM-E93W02 0 11° 11-12 21-22	 BM-E99W02A 0 3.4 5.0 mm 11-12 21-22
 BM-E7-W20 0 20° 78° 13-14 23-24	 BM-E91W20 0 10° 13-14 23-24	 BM-E92W20 0 10° 13-14 23-24	 BM-E93W20 0 10° 13-14 23-24	 BM-E99W20A 0 3.6 5.0 mm 13-14 23-24
 BM-E7-Z02 0 20° 32° 48° 78° 11-12 21-22 11-12 21-22	 BM-E91Z02 0 9° 20° 21-25 21-22 21-25 21-22	 BM-E92Z02 0 9° 20° 21-25 21-22 21-25 21-22	 BM-E93Z02 0 9° 20° 21-25 21-22 21-25 21-22	
 BM-E7-X12 0 18° 35° 78° 21-22 13-14 37°	 BM-E91X12 0 12° 21-25 13-14 27°	 BM-E92X12 0 12° 21-25 13-14 27°	 BM-E93X12 0 12° 21-25 13-14 27°	 BM-E99X12A 0 1.6 5.0 mm 21-22 13-14 2.9
 BM-E7-X21 0 19° 36° 78° 31-32 13-14 37°	 BM-E91X21 0 13° 31-32 13-14 27°	 BM-E92X21 0 13° 31-32 13-14 27°	 BM-E93X21 0 13° 31-32 13-14 27°	 BM-E99X21A 0 1.5 5.0 mm 31-32 13-14 3.0
 BM-E7-W03 0 18° 35° 78° 11-12 31-32 31-32	 BM-E91W03 0 12° 21-25 31-32 31-32	 BM-E92W03 0 12° 21-25 31-32 31-32	 BM-E93W03 0 12° 21-25 31-32 31-32	 BM-E99W03A 0 3.3 5.0 mm 11-12 31-32
 BM-E7-W30 0 23° 78° 13-14 23-24	 BM-E91W30 0 16° 13-14 23-24	 BM-E92W30 0 16° 13-14 23-24	 BM-E93W30 0 16° 13-14 23-24	 BM-E99W30A 0 2.7 5.0 mm 13-14 23-24
0,300	0,230	0,230	0,235	0,245

