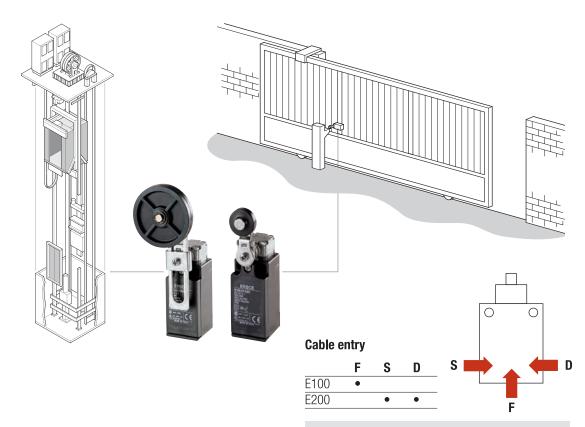


Limit switches for gates and lifts



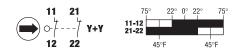
Product for gates and lifts

For gates and lifts applications Bremas provides a dedicated contact block, 2NC slow action with asymmetric working, to allow the detection of position and direction of the moving part. It is available for E100 and E200 series with plastic or metal body and actuators.



Dedicated contact block

Dedicated contact block 07 for gates/lifts



Fixing	
F100	

IIXIIIY	
E100	20/22 mm
E200	20/22 and 40/42 mm

In conformity with standards:

IEC EN 60947-5-1 • EN 60947-1 • UNI EN 1088 EN ISO 12100-1 • EN ISO 12100-2 • IEC 529 • EN 60529 VDE 0660-200 • VDE 0113 • EN 81-1 • EN 81-2

Thread	Series part	no.
Pg 13,5	E100	E200
M20x1,5	E101	E201
1/2" NPT (on request)	E102	E202
Pg 11 (on request)	E103	
M16x1,5 (on request)	E104	
M12 connector (on request)	E100M12	E200M12

E•C



Thermoplastic roller lever

		•				
Cable entry						
	PG 13,5			M20 x 1,5		
Plastic head Plastic body	Metal head Plastic body	Metal head Metal body	Plastic head Plastic body	Metal head Plastic body	Metal head Metal body	Contact travel
E10007EPC	E10007EIC	E10007EMC	E10107EPC	E10107EIC	E10107EMC	75° 22° 0° 22° 75° 11-12 21-22 45°F 45°F
0,081	0,135	0,225	0,081	0,135	0,225	

1

108,5

1

108,5

1

106

Weight	kg
Pack	pcs
Н	mm

Contact element

2NC slow action

07

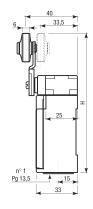
1

108,5

1

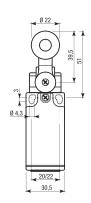
108,5

standard article



1

106





φ	V max (m/s)
30°	1,5
45°	1
60°	0,75
60-90°	0,25

Drive forces	
Minimum command force	15 Ncm
Minimum forced	
opening force	35 Ncm



Limit switches for gates and lifts **E100** series

I•C



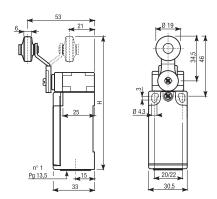
Thermoplastic roller lever

Contact element	
2NC slow action 11 21	07
Weight	kg
Pack	pcs

mm

Cable entry						
	PG 13,5			M20 x 1,5		
Plastic head	Metal head	Metal head	Plastic head	Metal head	Metal head	Contact travel
Plastic body	Plastic body	Metal body	Plastic body	Plastic body	Metal body	contact travel
E10007IPC	E10007IIC	E10007IMC	E10107 I PC	E10107 ii C	E10107IMC	75° 22° 0° 22° 75° 11-12 21-22 45°F 45°F
0,079	0,13	0,225	0,079	0,13	0,225	
1	1	1	1	1	1	
103,5	103,5	101	103,5	103,5	101	

standard article





φ	V max (m/s)
30°	1,5
45°	1
60°	0,75
60-90°	0,25

Drive forces	
Minimum command force	15 Ncm
Minimum forced	
opening force	35 Ncm

F•C



Thermoplastic roller variable length lever

	111011110	piactic relici	variable leng			
Cable entry						
	PG 13,5			M20 x 1,5		
Plastic head Plastic body	Metal head Plastic body	Metal head Metal body	Plastic head Plastic body	Metal head Plastic body	Metal head Metal body	Contact travel
E10007FPC	E10007FIC	E10007FMC	E10107FPC	E10107FIC	E10107FMC	75° 22° 0° 22° 75° 11-12 21-22 45°F 45°F
0,079	0,15	0,24	0,079	0,15	0,24	
1	1	1	1	1	1	
116 ÷ 156	116 ÷ 156	113,5 ÷ 153,5	103,5	103,5	101	

Contact element

2NC slow action

11 21

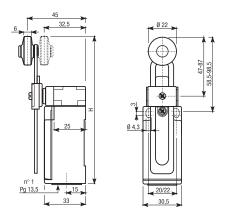
12 22

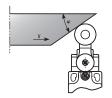
Weight kg

Pack pcs

H mm

standard article



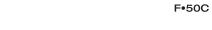


φ	V max (m/s)
30°	1,5
45°	1
60°	0,75
60-90°	0,25

Drive forces	
Minimum command force	15 Ncm
Minimum forced	
opening force	35 Ncm



Limit switches for gates and lifts **E100** series





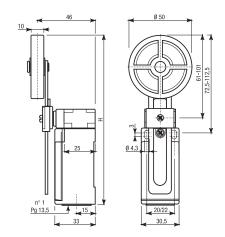
Ø50 mm rubber roller variable length lever

		Cable	entry			
	PG 13,5			M20 x 1,5		
Plastic head Plastic body	Metal head Plastic body	Metal head Metal body	Plastic head Plastic body	Metal head Plastic body	Metal head Metal body	Contact travel
E10007FP50C	E10007FI50C	E10007FM50C	E10107FP50C	E10107FI50C	E10107FM50C	75° 22° 0° 22° 75° 11-12 21-22 45°F 45°F
0,114	0,16	0,25	0,114	0,16	0,25	
1	1	1	1	1	1	
130 ÷ 170	130 ÷ 170	127,5 ÷ 167,5	130 ÷ 170	130 ÷ 170	127,5 ÷ 167,5	

Contact element	
2NC slow action 11 21	07
Weight	kg
Pack	pcs

mm

standard article





φ	V max (m/s)
30°	1,5
45°	1
60°	0,75
60-90°	0,25

Drive forces	
Minimum command force	15 Ncm
Minimum forced	
opening force	35 Ncm

limit and safety switches



FR•50C

Ø50 mm rubber roller adjustable lever

	Cable entry						
		PG 13,5			M20 x 1,5		
	Plastic head Plastic body	Metal head Plastic body	Metal head Metal body	Plastic head Plastic body	Metal head Plastic body	Metal head Metal body	Contact travel
07	E10007FRP50C	E10007FRI50C	E10007FRM50C	E10107FRP50C	E10107FRI50C	E10107FRM50C	75° 22° 0° 22° 75° 11-12 21-22 45°F 45°F
kg	0,114	0,16	0,25	0,114	0,16	0,25	
pcs	1	1	1	1	1	1	
mm	130 ÷ 170	130 ÷ 170	127,5 ÷ 167,5	130 ÷ 170	130 ÷ 170	127,5 ÷ 167,5	

standard article

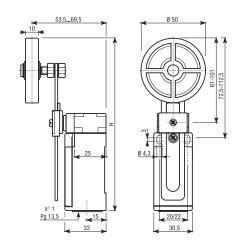
Contact element

2NC slow action

Weight

Pack

Н





φ	V max (m/s)
30°	1,5
45°	1
60°	0,75
60-90°	0,25

Drive forces	
Minimum command force	15 Ncm
Minimum forced	
opening force	35 Ncm



Contact element 2NC slow action

Weight

Pack

standard article

07

kg

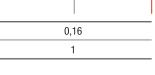
pcs

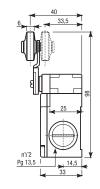
Limit switches for gates and lifts E100 series

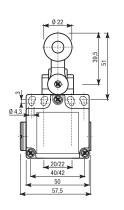
E•C



1116	erriopiastic re	mer lever
Cable	entry	
PG 13,5	M20 x 1,5	
Metal head Plastic body	Metal head Plastic body	Contact travel
E20007EIC	E20107EIC	75° 22° 0° 22° 75° 11-12 21-22 45°F 45°F
0,-	16	





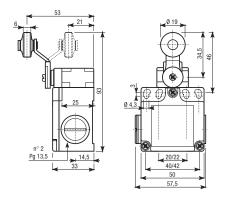


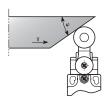


I•C

Thermoplastic roller lever

Cable	entry	1
PG 13,5	M20 x 1,5	
Metal head Plastic body	Metal head Plastic body	Contact travel
E20007 I IC	E20107 i iC	75° 22° 0° 22° 75° 11-12 21-22 45°F 45°F
0,	16	_
-	1	_





φ	V max (m/s
30°	1,5
45°	1
60°	0,75
60-90°	0,25

Drive forces	
Minimum command force	15 Ncm
Minimum forced	
opening force	35 Ncm

Accessories



Available for series: E100

E200 E300 E400

In conformity with standards: IEC/EN 60947-1 IEC/EN 60947-5-1

standard article

Contact element

Contact element		Code	Description	Pack	Weight conf. (kg)
1NO+1NC snap action 13 21	00	ELEM00	snap action 1NO+1NC	5	0,495
1NO+1NC azione lenta 21 13 0-7\ zb 22 14	01	ELEM01	slow action 1NO+1NC	5	0,485
1NO+1NC azione lenta 21 13	01A	ELEM01A	slow action 1NO+1NC	5	0,485
1NO+1NC slow overlap. 25 17 25 17	02	ELEM02	slow action overlap 1NO+1NC	5	0,485
2NO azione lenta 13 23	03	ELEM03	slow action 2NO	5	0,485
2NO slow action 13 23 >\frac{1}{} X+X 14 24	03S	ELEM03S	slow action 2NO	5	0,485
2NC slow action 11 21	04	ELEM04	slow action 2NC	5	0,485
2NC slow action 11	04S	ELEM04S	slow action 2NC	5	0,485
1NO+1NC snap action 11 21	05	ELEM05	snap action 2NC	5	0,485
2NC slow action 11 21	07	ELEM07	slow action 2NC	5	0,485
3NC+1NO slow action 11 21 31 43 80 zb 12 22 32 44	80*	ELEM80	slow action 3NO+1NC	5	0,485
2NC+2NC slow action 11 21 31 41 81	81*	ELEM81	slow action 2NO+2NC	5	0,485

* for E400 series

