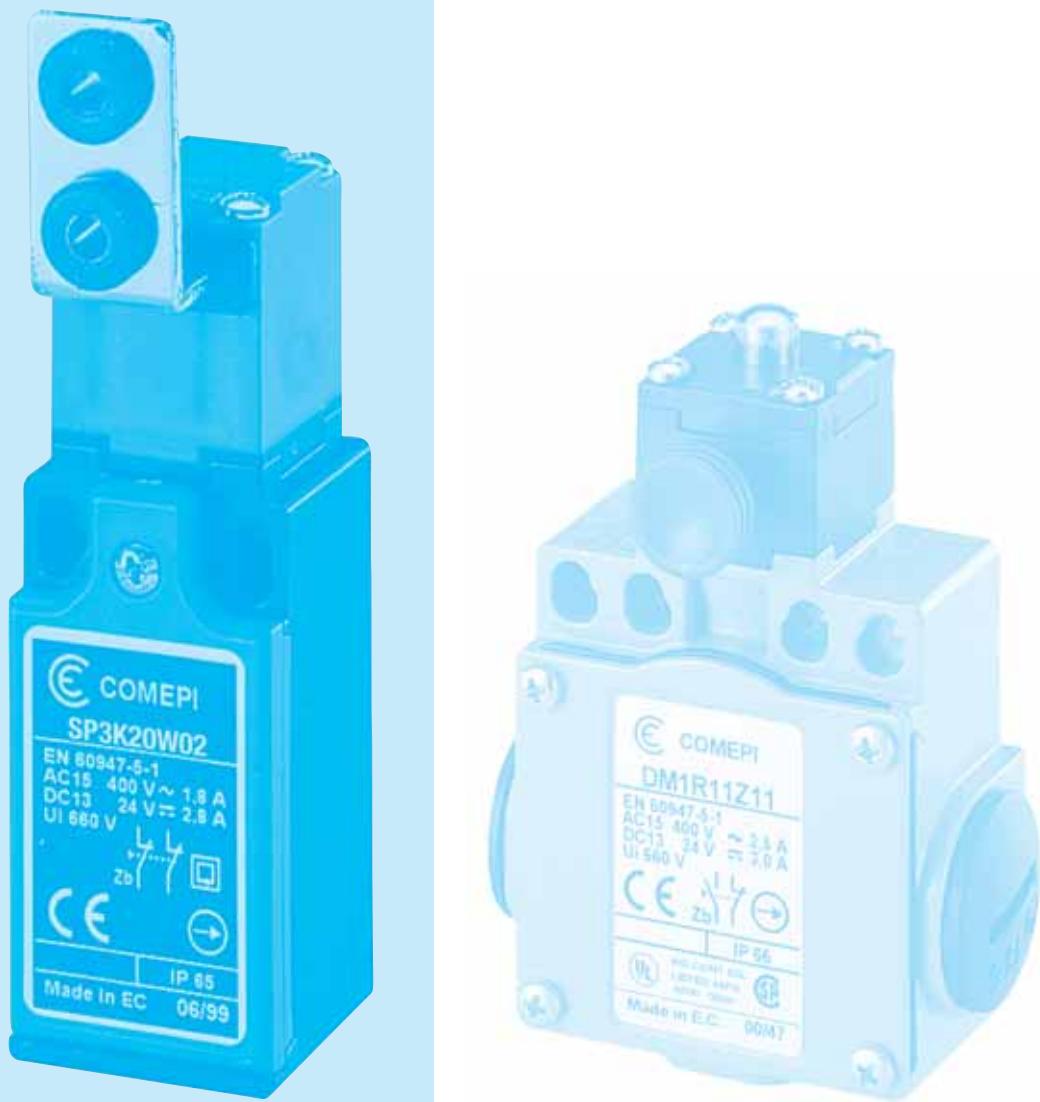




SAFETY LIMIT SWITCHES



Application

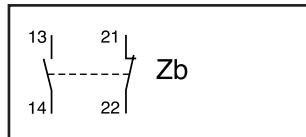
The Comepi limit switches are developed and manufactured according to the rules set out in IEC international publications and EN european standards.

Easy to use, electromechanical limit switches offer specific qualities:

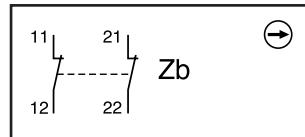
- Visible operation.
- Able to switch strong currents (10 A conventional thermal current).
- Precise operating points (consistency).
- Immune to electromagnetic disturbances.
- Electrically separated contacts.
- N.C. contacts with positive opening operation (⊖).

Contact Blocks

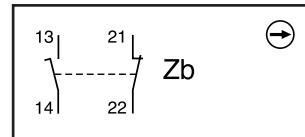
Z11 Snap action
1NO+1NC



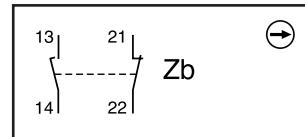
Z02 Snap action
2NC



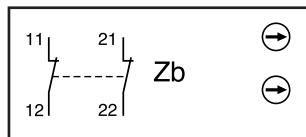
X11 Slow action break before
make 1NO+1NC



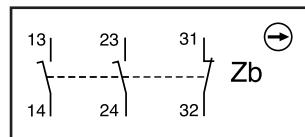
Y11 Slow action make before
break 1NO+1NC



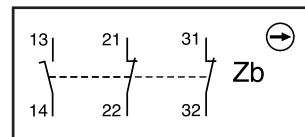
W02 Simultaneous slow action
2NC



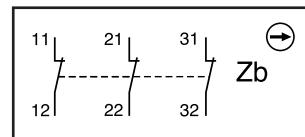
X21 Slow action break before
make 2NO+1NC



X12 Slow action break before
make 1NO+2NC



W03 Simultaneous slow action
3NC



Main Technical Data

	SP, SBP, SDP series	SM, SBM, SCM, SDM series
Standards	IEC 947-5-1, EN 60947-5-1, UL 508, CSA C22-2 No 14	
Operating temperature range	-25°C... +70°C	
Protection against electrical shocks (acc. to IEC 536)	Class II	Class I
Protection degree (acc. to IEC 529)	IP65	IP 66
Rated insulation voltage (acc. to IEC 947-1)	$U_i = 690V$ (SM, SDM series: $U_i = 400V$)	
Rated impulsive withstand voltage (acc. to IEC 947-1)	$U_{imp} = 6kV$	
Short-circuit protection	Fuse 10A type gG (gl)	
Power category	A600 - Q600 (SM, SDM series: A300 - Q300)	
Rated operational current (acc. to IEC 947-5-1)	AC-15: 24V-10A; 230V-3,1A; 380V-1,9A DC-13: 24V-2,8A; 250V-0,27A	

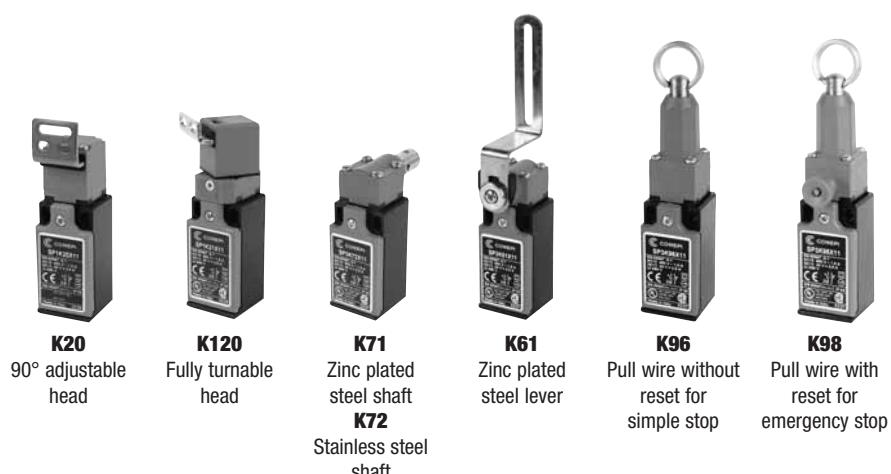
Electrical connection

Replace the symbol • with the number of the required thread

- 1: PG 13.5
- 2: 1/2" Through adapter on SP and SDP series)
- 3: PG 11 Available on SP, SM, SDP and SDM series)
- 4: M16x1,5 Available on SP, SM, SDP and SDM series)
- 5: M20x1,5


SP_K Series

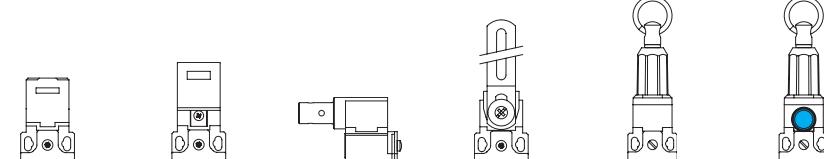
30 mm polymeric casing.
1 cable inlet. IP 65


Contact blocks

	⊖ K20	⊖ K120	⊖ K7•	⊖ K61	⊖ K96	⊖ K98
Z11 (1NO+1NC)	SP•K20Z11	SP•K120Z11	SP•K7•Z11	SP•K61Z11	SP•K96Z11	SP•K98Z11
Z02 (2NC)	SP•K20Z02	SP•K120Z02	SP•K7•Z02	SP•K61Z02	SP•K96Z02	SP•K98Z02
X11 (1NO+1NC)	SP•K20X11	SP•K120X11	SP•K7•X11	SP•K61X11	SP•K96X11	SP•K98X11
Y11 (1NO+1NC)	SP•K20Y11	SP•K120Y11	SP•K7•Y11	SP•K61Y11	SP•K96Y11	SP•K98Y11
W02 (2NC)	SP•K20W02	SP•K120W02	SP•K7•W02	SP•K61W02	SP•K96W02	SP•K98W02

SM_K Series

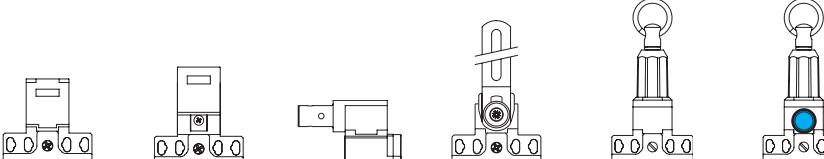
30 mm metal casing.
1 cable inlet. IP 66


Contact blocks

	⊖ K20	⊖ K120	⊖ K7•	⊖ K61	⊖ K96	⊖ K98
Z11 (1NO+1NC)	SM•K20Z11	SM•K120Z11	SM•K7•Z11	SM•K61Z11	SM•K96Z11	SM•K98Z11
Z02 (2NC)	SM•K20Z02	SM•K120Z02	SM•K7•Z02	SM•K61Z02	SM•K96Z02	SM•K98Z02
X11 (1NO+1NC)	SM•K20X11	SM•K120X11	SM•K7•X11	SM•K61X11	SM•K96X11	SM•K98X11
Y11 (1NO+1NC)	SM•K20Y11	SM•K120Y11	SM•K7•Y11	SM•K61Y11	SM•K96Y11	SM•K98Y11
W02 (2NC)	SM•K20W02	SM•K120W02	SM•K7•W02	SM•K61W02	SM•K96W02	SM•K98W02

SDP_K Series

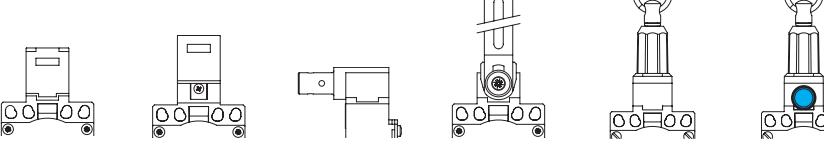
50 mm polymeric casing.
2 cable inlets. IP 65


Contact blocks

	⊖ K20	⊖ K120	⊖ K7•	⊖ K61	⊖ K96	⊖ K98
Z11 (1NO+1NC)	SDP•K20Z11	SDP•K120Z11	SDP•K7•Z11	SDP•K61Z11	SDP•K96Z11	SDP•K98Z11
Z02 (2NC)	SDP•K20Z02	SDP•K120Z02	SDP•K7•Z02	SDP•K61Z02	SDP•K96Z02	SDP•K98Z02
X11 (1NO+1NC)	SDP•K20X11	SDP•K120X11	SDP•K7•X11	SDP•K61X11	SDP•K96X11	SDP•K98X11
Y11 (1NO+1NC)	SDP•K20Y11	SDP•K120Y11	SDP•K7•Y11	SDP•K61Y11	SDP•K96Y11	SDP•K98Y11
W02 (2NC)	SDP•K20W02	SDP•K120W02	SDP•K7•W02	SDP•K61W02	SDP•K96W02	SDP•K98W02

SDM_K Series

50 mm metal casing.
3 cable inlets. IP 66


Contact blocks

	⊖ K20	⊖ K120	⊖ K7•	⊖ K61	⊖ K96	⊖ K98
Z11 (1NO+1NC)	SDM•K20Z11	SDM•K120Z11	SDM•K7•Z11	SDM•K61Z11	SDM•K96Z11	SDM•K98Z11
Z02 (2NC)	SDM•K20Z02	SDM•K120Z02	SDM•K7•Z02	SDM•K61Z02	SDM•K96Z02	SDM•K98Z02
X11 (1NO+1NC)	SDM•K20X11	SDM•K120X11	SDM•K7•X11	SDM•K61X11	SDM•K96X11	SDM•K98X11
Y11 (1NO+1NC)	SDM•K20Y11	SDM•K120Y11	SDM•K7•Y11	SDM•K61Y11	SDM•K96Y11	SDM•K98Y11
W02 (2NC)	SDM•K20W02	SDM•K120W02	SDM•K7•W02	SDM•K61W02	SDM•K96W02	SDM•K98W02


SBM_K Series

 40 mm aluminium casing.
 1 cable inlet. IP 66

K30/K40
 Key operated
 90° adjustable head

K97
 Pull wire without reset
 for simple stop

K99
 Pull wire with reset
 for emergency stop

Contact blocks
Z11 (1NO+1NC)
⊕ K40

SBM•K40Z11

Z02 (2NC)
⊕ K97

SBM•K97Z11

X11 (1NO+1NC)

SBM•K97Z02

Y11 (1NO+1NC)

SBM•K99Z11

W02 (2NC)

SBM•K99Z02

X21 (2NO+1NC)

SBM•K99X11

X12 (1NO+2NC)

SBM•K99Y11

W03 (3NC)

SBM•K99W02

SBM•K40W03

SBM•K99X21

⊕ K99

SBM•K99Z11

SBM•K99Z02

SBM•K99X11

SBM•K99Y11

SBM•K99W02

SBM•K99X21

SBM•K99Y12

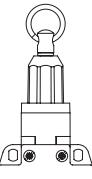
SBM•K99W03


SCM_K Series

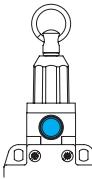
 60 mm aluminium casing.
 3 cable inlets. IP 66

⊕ K40

SCM•K40Z11


⊕ K97

SCM•K97Z11


⊕ K99

SCM•K99Z11

SCM•K99Z02

SCM•K99X11

SCM•K99Y11

SCM•K99W02

SCM•K99X21

SCM•K99Y12

SCM•K99W03

SBP_K Series

 40 mm polymeric casing.
 1 cable inlet. IP 65

⊕ K30

SBP•K30Z11

Z11 (1NO+1NC)	SBP•K30Z02
Z02 (2NC)	SBP•K30Z11
X11 (1NO+1NC)	SBP•K30X11
Y11 (1NO+1NC)	SBP•K30Y11
W02 (2NC)	SBP•K30W02
X21 (2NO+1NC)	SBP•K30X21
X12 (1NO+2NC)	SBP•K30X12
W03 (3NC)	SBP•K30W03

Operating keys (to be ordered separately)



Description	Bent key	Flat key	Bent key	Flat key	Shock absorbing bent key	Shock absorbing flat key	Adjustable joint key
Centre distance fixing holes	22 mm.	22 mm.	13 mm.	13 mm.	15 mm.	15 mm.	40 mm.
	Code	Code	Code	Code	Code	Code	Code
For operating heads K20 and K120	13	14	15	16	17	18	19
For operating heads K30 and K40			35	36			39

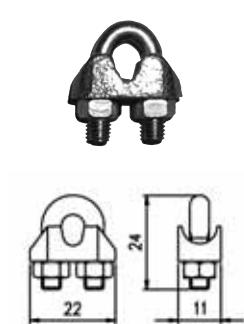
Accessories

OCC 08

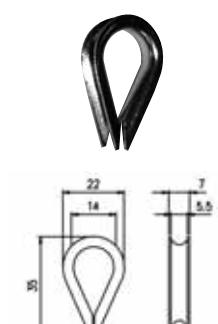
Stay Bolt


MOR 05

Rope Clamp


RED 05

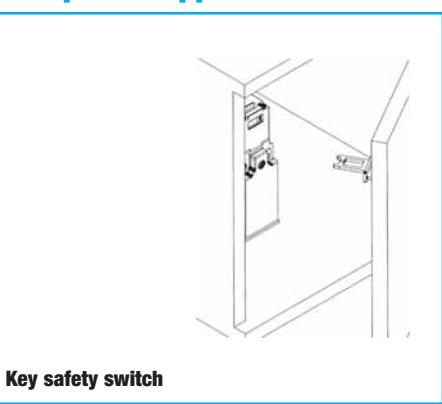
Rope eye


FUN 05

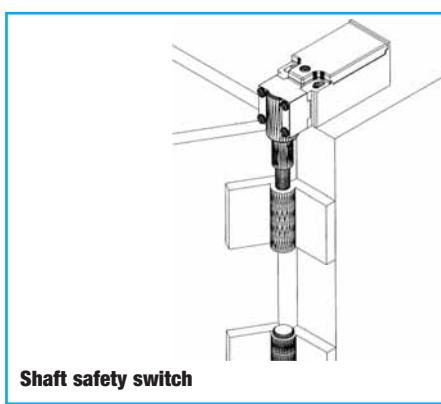
Rope ø 5mm



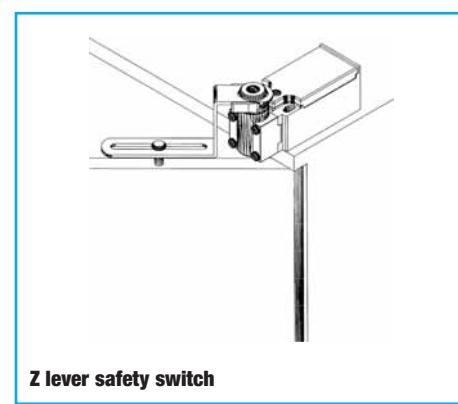
Examples of applications



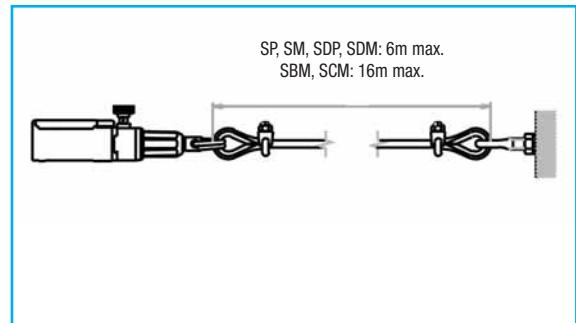
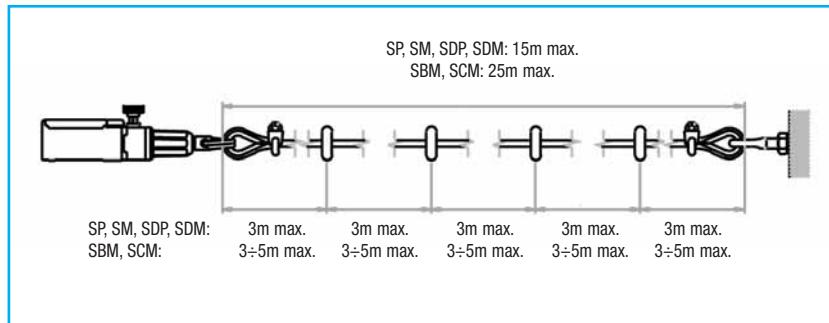
Key safety switch



Shaft safety switch



Z lever safety switch


 SP, SM, SDP, SDM: 6m max.
 SBM, SCM: 16m max.

 SP, SM, SDP, SDM: 15m max.
 SBM, SCM: 25m max.

 SP, SM, SDP, SDM: 3m max.
 SBM, SCM: 3-5m max.

3m max.

3m max.

3m max.

3m max.

3m max.

Pull wire safety switch

AP_R series 30 mm. polymeric limit switches - IP 65
 EN 50047 - 1 cables entry



Cable inlets

AP1: PG 13.5

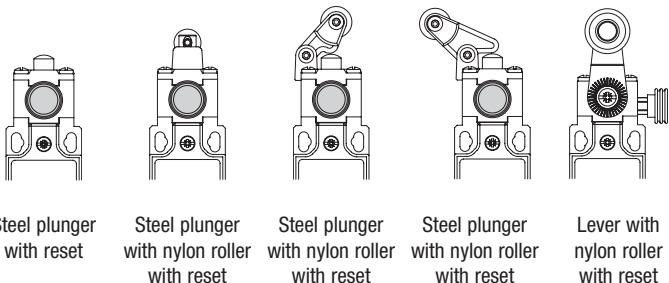
AP2: 1/2" NPT

(with adapter)

AP3: PG 11

AP4: M 16 x 1,5

AP5: M 20 x 1,5



Contact blocks

Z11 (1NO+1NC)

AP•R11Z11 AP•R13Z11 AP•R31Z11 AP•R32Z11 AP•R41Z11

Z02 (2NC)

AP•R11Z02 AP•R13Z02 AP•R31Z02 AP•R32Z02 AP•R41Z02

X11 (1NO+1NC)

AP•R11X11 AP•R13X11 AP•R31X11 AP•R32X11 AP•R41X11

W02 (2NC)

AP•R11W02 AP•R13W02 AP•R31W02 AP•R32W02 AP•R41W02

Other versions available on request

AM_R series 30 mm. metal limit switches - with polymeric working heads - IP 66
 1 cables entry



Cable inlets

AM1: PG 13.5

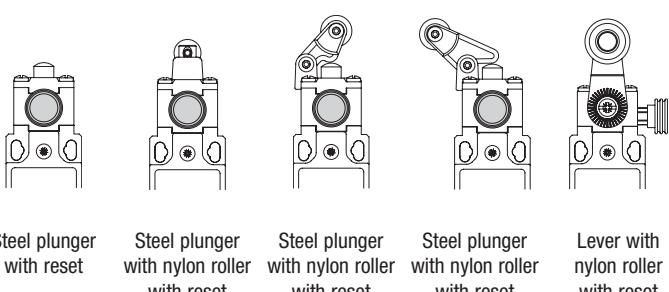
AM2: 1/2" NPT

(with adapter)

AM3: PG 11

AM4: M 16 x 1,5

AM5: M 20 x 1,5



Contact blocks

Z11 (1NO+1NC)

AM•R11Z11 AM•R13Z11 AM•R31Z11 AM•R32Z11 AM•R41Z11

Z02 (2NC)

AM•R11Z02 AM•R13Z02 AM•R31Z02 AM•R32Z02 AM•R41Z02

X11 (1NO+1NC)

AM•R11X11 AM•R13X11 AM•R31X11 AM•R32X11 AM•R41X11

W02 (2NC)

AM•R11W02 AM•R13W02 AM•R31W02 AM•R32W02 AM•R41W02

Other versions available on request

DP_R series 50 mm. polymeric limit switches - IP 65
 2 cables entries



Cable inlets

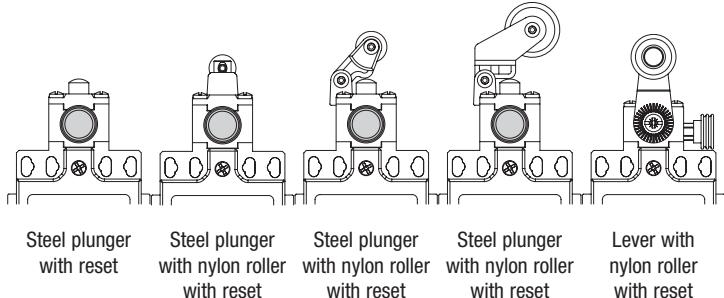
DP1: PG 13.5

DP2: 1/2" NPT
 (with adapter)

DP3: PG 11

DP4: M 16 x 1,5

DP5: M 20 x 1,5



Contact blocks

Z11 (1NO+1NC)

⊖ R11

DP•R11Z11

⊖ R13

DP•R13Z11

⊖ R31

DP•R31Z11

⊖ R38

DP•R38Z11

⊖ R41

DP•R41Z11

Z02 (2NC)

DP•R11Z02

DP•R13Z02

DP•R31Z02

DP•R38Z02

DP•R41Z02

X11 (1NO+1NC)

DP•R11X11

DP•R13X11

DP•R31X11

DP•R38X11

DP•R41X11

W02 (2NC)

DP•R11W02

DP•R13W02

DP•R31W02

DP•R38W02

DP•R41W02

Other versions available on request

DM_R series 50 mm. metal limit switches - with polymeric working heads - IP 66
 3 cables entries



Cable inlets

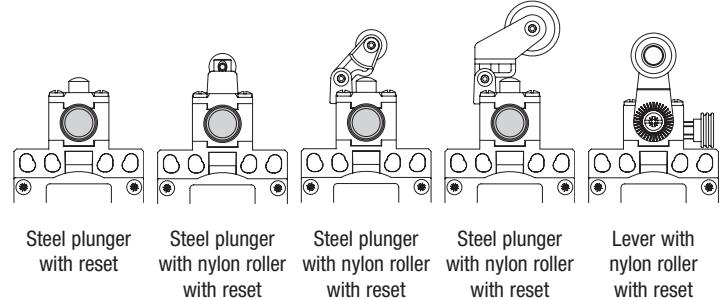
DM1: PG 13.5

DM2: 1/2" NPT

DM3: PG 11

DM4: M 16 x 1,5

DM5: M 20 x 1,5



Contact blocks

Z11 (1NO+1NC)

⊖ R11

DM•R11Z11

⊖ R13

DM•R13Z11

⊖ R31

DM•R31Z11

⊖ R38

DM•R38Z11

⊖ R41

DM•R41Z11

Z02 (2NC)

DM•R11Z02

DM•R13Z02

DM•R31Z02

DM•R38Z02

DM•R41Z02

X11 (1NO+1NC)

DM•R11X11

DM•R13Z02

DM•R31Z02

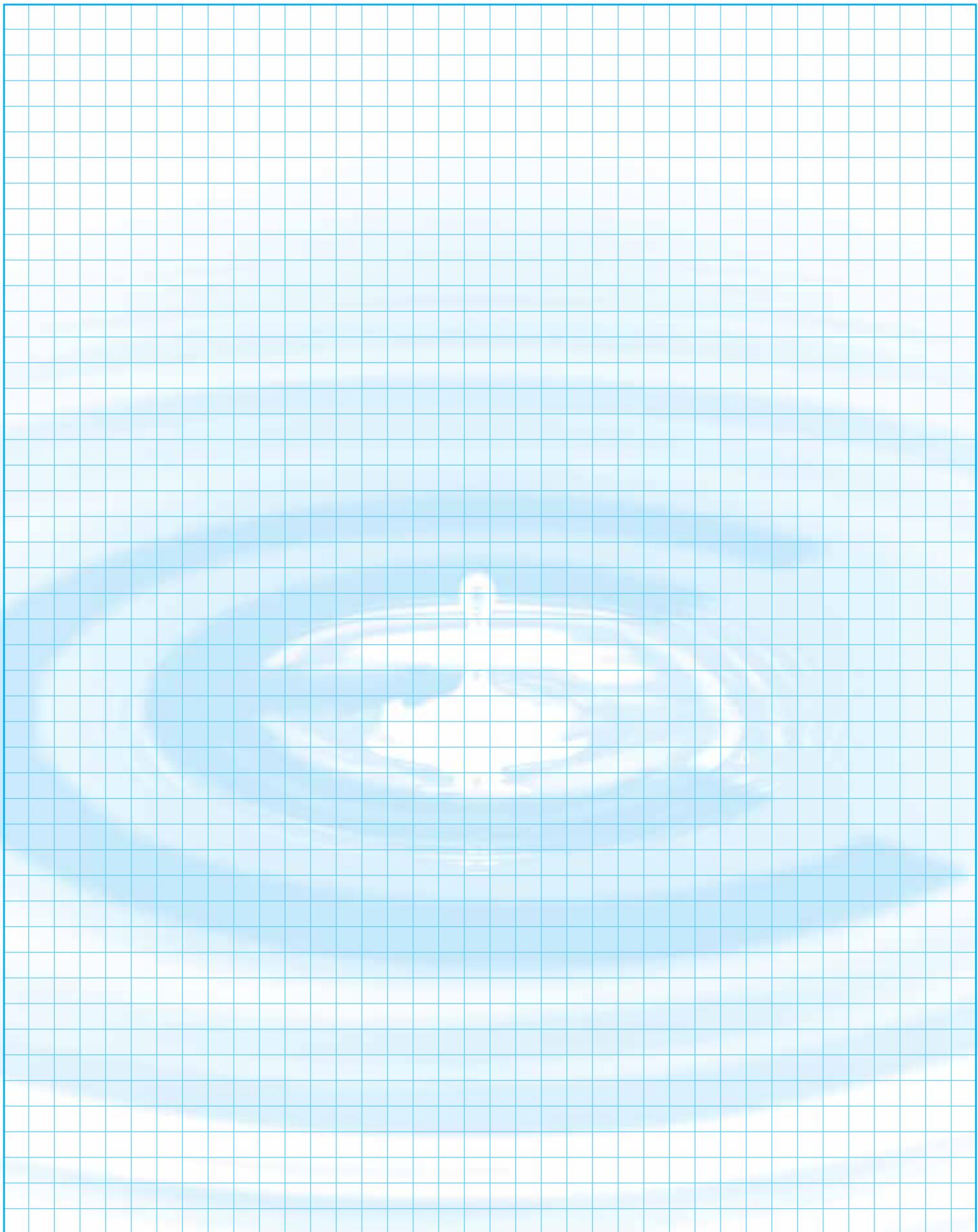
DM•R38Z02

DM•R41Z02

Other versions available on request



NOTES

A large, faint background image of a cloudy sky, visible through the grid lines of the notepad.