

Position Switches HRZX91 Series Explosion-proof Position Switches



Explosion protection to
-CENELEC

-IEC

Can be used in

Zone 1 and Zone 2

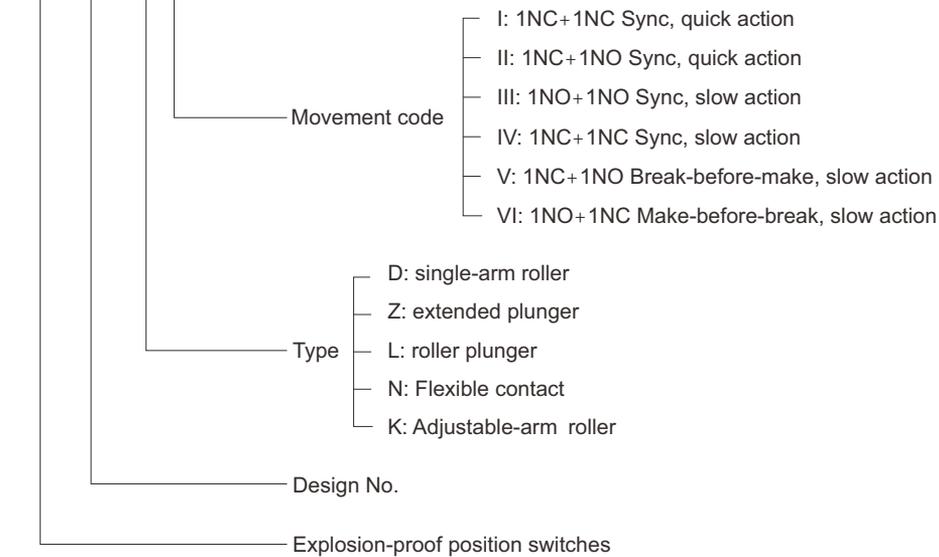
Zone 21 and Zone 22

Types: D, Z, L, N, K.

Copper-free Aluminium Alloy enclosure, powder coated surface.

Catalogue number logic

HRZX 91 - □ □



Zones 1&2; 21&22

Position Switches

HRZX91 Series Explosion-proof Position Switches

Selection table				
Version	Rated voltage	Rated current (A)	Type of contact	Ordering code
HRZX91-D	380V AC	3	1NC+1NC Sync, quick action	40001a
			1NC+1NO Sync, quick action	40001b
			1NO+1NO Sync, slow action	40001c
			1NC+1NC Sync, slow action	40001d
			1NC+1NO Break-before-make, slow action	40001e
			1NO+1NC Make-before-break, slow action	40001f
HRZX91-Z	380V AC	3	1NC+1NC Sync, quick action	40002a
			1NC+1NO Sync, quick action	40002b
			1NO+1NO Sync, slow action	40002c
			1NC+1NC Sync, slow action	40002d
			1NC+1NO Break-before-make, slow action	40002e
			1NO+1NC Make-before-break, slow action	40002f
HRZX91-L	380V AC	3	1NC+1NC Sync, quick action	40003a
			1NC+1NO Sync, quick action	40003b
			1NO+1NO Sync, slow action	40003c
			1NC+1NC Sync, slow action	40003d
			1NC+1NO Break-before-make, slow action	40003e
			1NO+1NC Make-before-break, slow action	40003f
HRZX91-N	380V AC	3	1NC+1NC Sync, quick action	40004a
			1NC+1NO Sync, quick action	40004b
			1NO+1NO Sync, slow action	40004c
			1NC+1NC Sync, slow action	40004d
			1NC+1NO Break-before-make, slow action	40004e
			1NO+1NC Make-before-break, slow action	40004f
HRZX91-K	380V AC	3	1NC+1NC Sync, quick action	40005a
			1NC+1NO Sync, quick action	40005b
			1NO+1NO Sync, slow action	40005c
			1NC+1NC Sync, slow action	40005d
			1NC+1NO Break-before-make, slow action	40005e
			1NO+1NC Make-before-break, slow action	40005f



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Movement diagram					
Code	Contact type	Schematic diagram	Movement diagram	Action diagram of rocker arms	Action diagram of plungers
I	1NC+1NC Sync, quick action				
II	1NC+1NO Sync, quick action				
III	1NO+1NO Sync, slow action				
IV	1NC+1NC Sync, slow action				
V	1NC+1NO Break-before-make, slow action				
VI	1NO+1NC Make-before-break, slow action				

Note: The size with "*" has a certain error, and the Angle can be adjusted by adjusting the starting position of the rocker arm.



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Technical data

Explosion-proof position switches HRZX91-□

Explosion protection

Global (IECEX)

Gas and dust

IECEX NEP 20.0010X

Ex db IIC T6 Gb

Ex tb IIIC T80 Db

Europe (ATEX)

Gas and dust

PTB 20 ATEX 1010X

⊕ II 2 G Ex db IIC T6 Gb

⊕ II 2 D Ex tb IIIC T80 Db

IECEX; ATEX

Certificates

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-31

Enclosure material

Copper-free Aluminium Alloy, powder coated surface

Enclosure colour

Window grey (RAL7040)

Exposed fastener

Stainless steel

Type of contact

1NO+1NC or 2NO or 2NC

Swing angle or distance of roller arm

HRZX91-D	HRZX91-Z	HRZX91-L	HRZX91-K	HRZX91-N
180°	6.5mm	6.5mm	180°	180°

Rated voltage

Max. 380V AC 50/60Hz, 250V DC

Rated current

3A AC / 0.27A DC

Degree of protection

IP66

Internal&external earthing

M4/M4

Ambient temperature

-60 ~+60

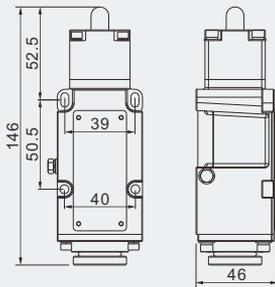
Cable entries

1 x M20 x 1.5

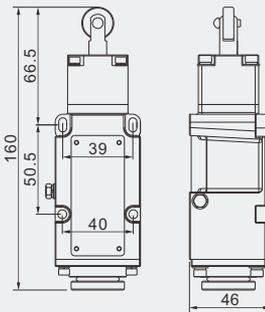
Available cable outer diameter

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/22~31.

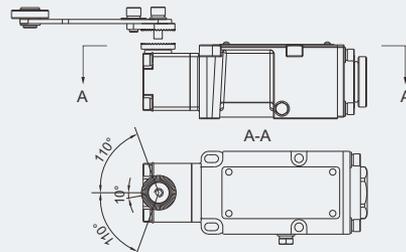
Dimension drawings (all dimensions in mm) - subject to alteration



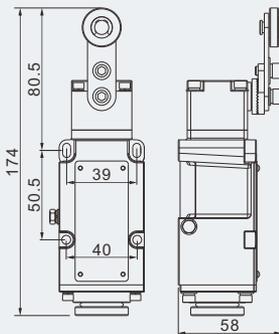
HRZX91-Z



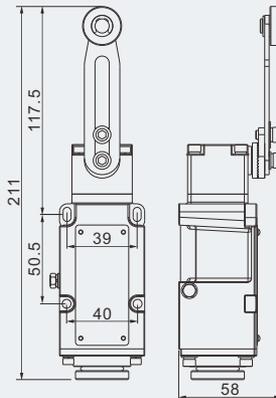
HRZX91-L



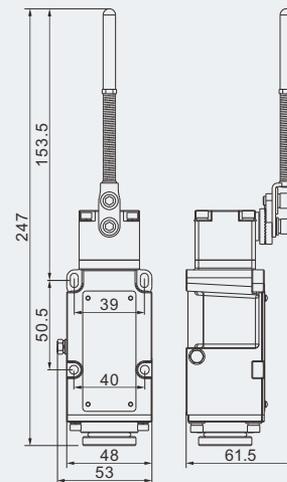
The initial adjustable angle of the rocker arm
(Adjust the angle in multiples of 10°, the maximum
adjustment angle is 110° for both left and right side)



HRZX91-D



HRZX91-K



HRZX91-N

