

Position Switches

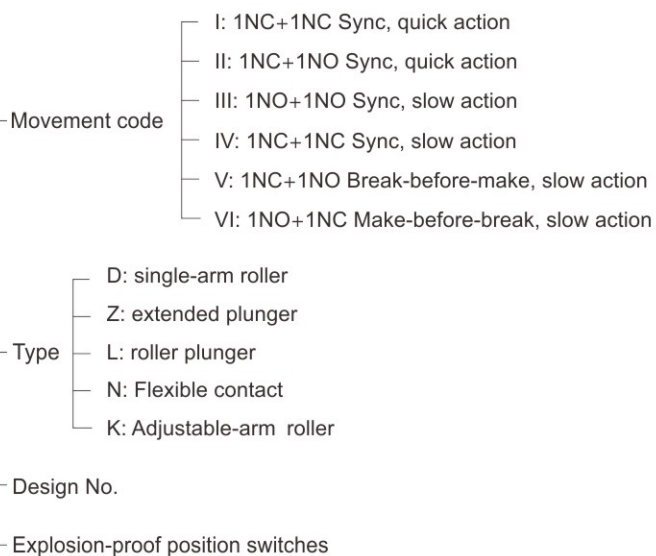
HRZX91 Series Explosion-proof Position Switches



- ◆ 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

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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.

Position Switches

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Technical data

Explosion-proof position switches HRZX91-□

Explosion protection

Global (IECEx)

Gas and dust

Europe (ATEX)

Gas and dust

Certificates

Conformity to standards

Enclosure material

Enclosure colour

Exposed fastener

Type of contact

Swing angle or distance of roller arm

IECEX NEP 20.0010X

Ex db IIC T6 Gb

Ex tb IIIC T80°C Db

PTB 20 ATEX 1010X

Ex II 2 G Ex db IIC T6 Gb

Ex II 2 D Ex tb IIIC T80°C Db

IECEX; ATEX

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

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

Copper-free Aluminium Alloy, powder coated surface

Window grey (RAL7040)

Stainless steel

1NO+1NC or 2NO or 2NC

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

Rated voltage

Rated current

Degree of protection

Internal&external earthing

Ambient temperature

Cable entries

Available cable outer diameter

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

3A AC / 0.27A DC

IP66

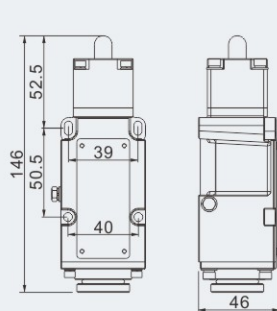
M4/M4

-60°C~+60°C

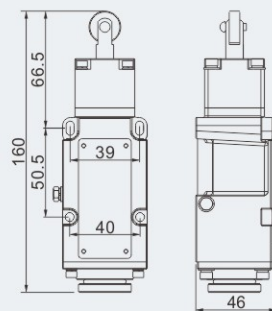
1 x M20 x 1.5

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

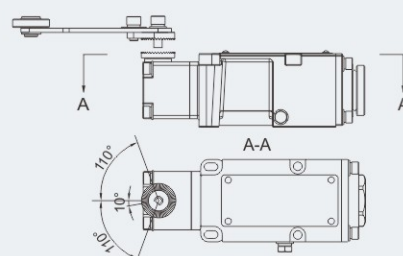
Dimension drawings (all dimensions in mm) - subject to alteration



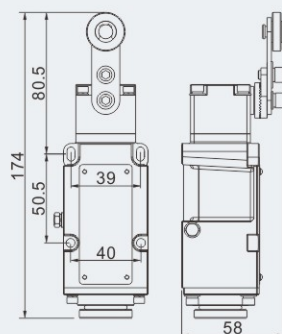
HRZX91-Z



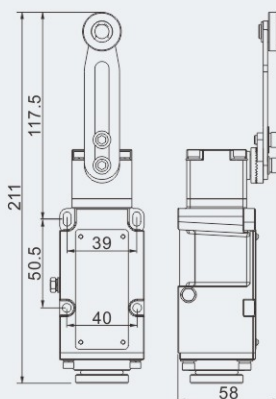
HRZX91-L



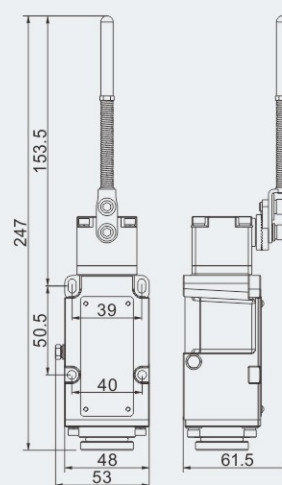
The initial adjustable angle of the rocker arm
(Adjust the angle in multiples of 10°, the maximum
adjustment angle is 110° for both left and right side)



HRZX91-D



HRZX91-K



HRZX91-N

