

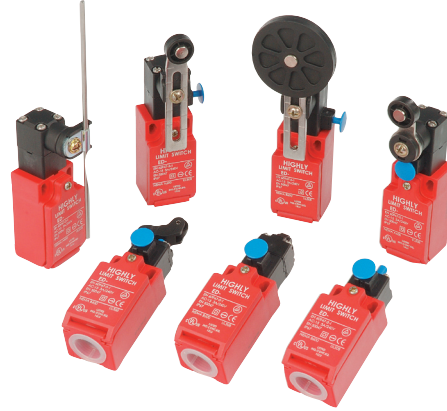


EDR SERIES SAFETY LIMIT SWITCHES WITH RESET

Features

- Each model features a positive opening mechanism (NC contacts only) and equipped with a lockable head.
- Conforms to EN (TUV) standards corresponding to the CE marking.
- Positive opening operation of NC (Normally Closed) contacts conforming to IEC /EN 60947-5-1 
- Double insulation makes ground terminal unnecessary (Bears  marking)
- Wide standard operating temperature range: -25°C to 80°C
- Full range of actuator heads and levers suitable for safety applications
- Sealing up to IP 67
- Wide switch variations, (Snap action and slow action basic switches)
- International conduit sizes



Specifications

Standards	EN60947-5-1, UL508, EN50047, EN1088
Positive Opening Operation	NC Contact
Utilization Category	AC15 A600
Min Current	5V, 5mA, DC
Thermal Current (Ith)	10A
Rated Insulation Voltage	600 VAC
Rated Impulse withstand Volt	2500 VAC
Insulation Resistance	100M Ω min. (DC 500V)
Contact Resistance	25m Ω max. (Initial)
Max Switching Speed	250mm/s
Max Switching Frequency	6000 operation per hour
Enclosure Material	UL approved glass-filled polybutylene terephthalate
Enclosure Protection	IP 67
Operating Temperature	Min -25°C (-18°F) Max 80°C (+176°F)
Pollution Degree	3
Protection Against Electric Shock	Class II (Double Insulation)
Mech. Life Expectancy	1 x 10 ⁶ Cycle min
Electrically Life Expectancy	150,000 Cycle min
Vibration	IEC 68-2-6, 10-55Hz \pm 1 Hz, Excursion:0.35mm, 1 octave/min
Conduit Entry	Various (see Product Selection table)
Fixing	2 x M4

EDR SERIES SAFETY LIMIT SWITCHES WITH RESET

Structure description

Metal Lever Setting

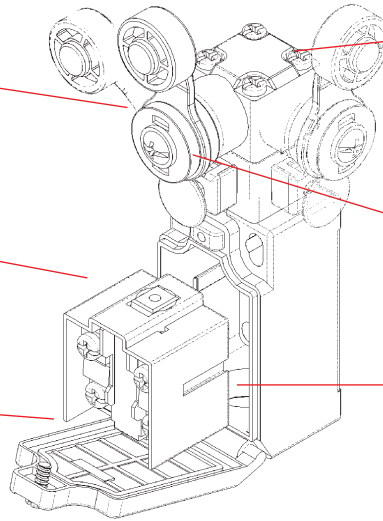
Grooves which engage the lever every 18° are cut in the operation indicator disk to prevent the lever from slipping against the rotary shaft.

Contact Block

Has a positive opening mechanism separating the contacts when the contacts are welded.

Cover

The cover, with a hinge on its lower part, can be opened by removing the screw of the cover, which ensures ease of maintenance and wiring.



Head

With roller lever models, the direction of the switch head can be adjusted to any of the four directions by loosening the roller lever switch screws at the four corners of the head.

Reset Head

The direction of the reset head can be adjusted to any of the four directions.

Conduit

Wide switch variations.
PG13.5 PG11
M16 M20
1/2-14NPT

Product Selection

EDR-□-□-□

1 2 3

1. THREAD DIMENSION OF LEAD EXIT

- 1: PG13.5 (s)
- 2: 1/2NPT (c)
- 4: PG11 (o)
- 5: M16 (C)
- 6: M20 (O)
- 7: Connector (C)

2. CONTACT TYPES

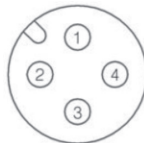
- 1:1NC/1NO SLOW ACTION (BBM) (S)
- 2:2NC SLOW ACTION (O)

3. Key type

- 20: Roller arm type
- 21: Adjustable roller arm type (standard roller)
- 22: Adjustable roller arm type (Long arm type)
- 25: Rod lever type
- 27: Adjustable roller arm type (big roller)
- 31: Push plunger type
- 32: Roller plunger type
- 62: Roller lever type
- 63: One-Way roller arm lever type

*(s):standard (o):option (c): customization

M12 Connector pin arrangement



Contact Block Form

TYPE	CONTACT FORM	CONNECTOR PIN ARRANGEMENT	OPERATION DIAGRAMS
ED-□-1-□□	1NC/1NO(Slow action) (See Note 1)		
ED-□-2-□□	2NC (Slow action) (See Note 2)		

Note: 1. Only NC contact 11-12 has an approved positive opening mechanism.

2. NC contacts 11-12 and 21-22 have an approved positive opening mechanism.

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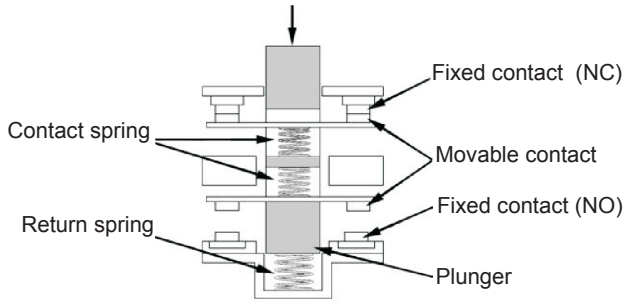
A20

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EDR SERIES SAFETY LIMIT SWITCHES WITH RESET

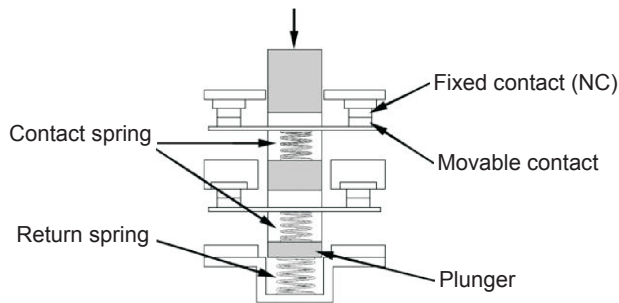
Positive Opening Mechanism

1NC/1NO Contact (Snap action)



Only the NC contacts have a positive opening function. When metal deposition occurs, the contacts are separated from each other by pushing in the plunger.

2NC Contact (Slow action)



Both NC contacts incorporate a positive opening function. When metal deposition occurs, the contacts are separated from each other by pushing in the plunger.

Operating Characteristics

Unit: mm

Item	Operating Characteristics	Dimensions
EDR-20 Roller Arm Type	<p>Slow Action 1NC\1NO EDR-__-1-20</p> <p>Slow Action 2NC EDR-__-2-20</p>	

EDR SERIES SAFETY LIMIT SWITCHES WITH RESET

Operating Characteristics

Unit: mm

Item

Operating Characteristics

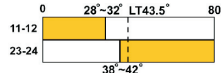
Dimensions

EDR-21

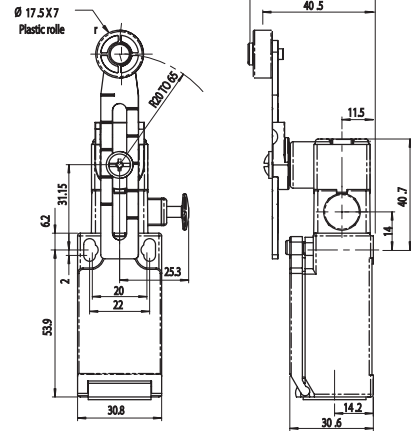
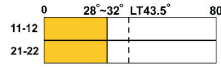
Adjustable Roller
Arm type (Standard arm)



Slow Action 1NC\1NO
EDR-__-1-21



Slow Action 1NC\1NO
EDR-__-2-21

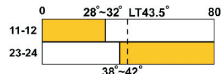


EDR-22

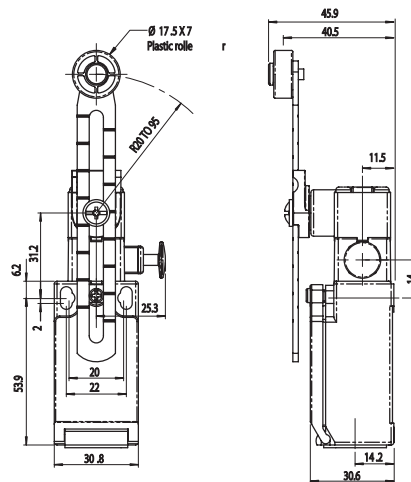
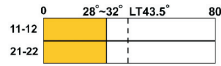
Adjustable Roller Arm Type
(Long arm)



Slow Action 1NC\1NO
EDR-__-1-22

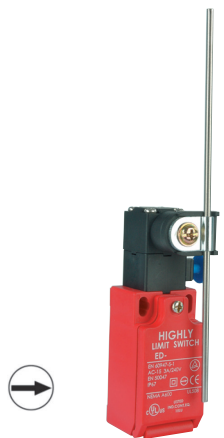


Slow Action 2NC
EDR-__-2-22

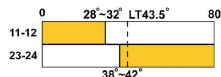


EDR-25

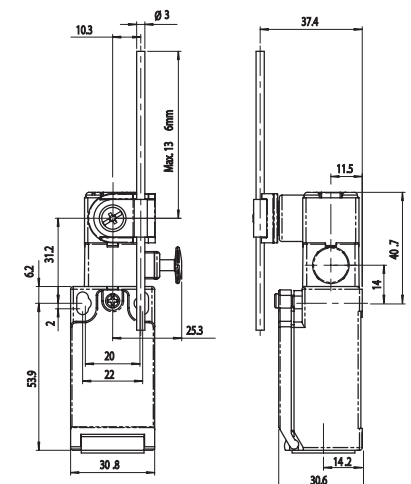
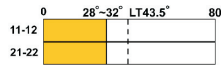
Rod Lever Type



Slow Action 1NC\1NO
EDR-__-1-25



Slow Action 2NC
EDR-__-2-25



EDR SERIES SAFETY LIMIT SWITCHES WITH RESET

Operating Characteristics

Unit: mm

Item

Operating Characteristics

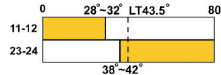
Dimensions

EDR-27

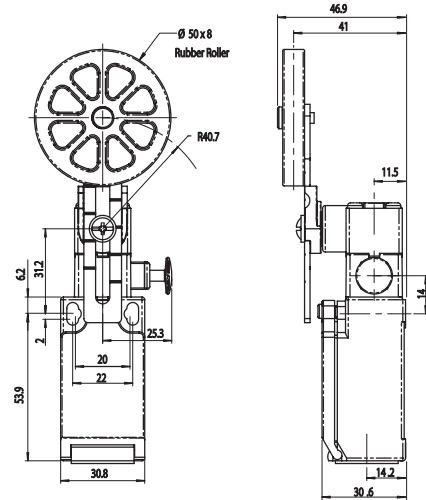
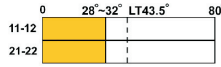
Adjustable Roller
Arm Type (Big roller)



Slow Action 1NC\1NO
EDR-__-1-27



Slow Action 2NC
EDR-__-2-27

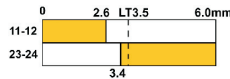


EDR-31

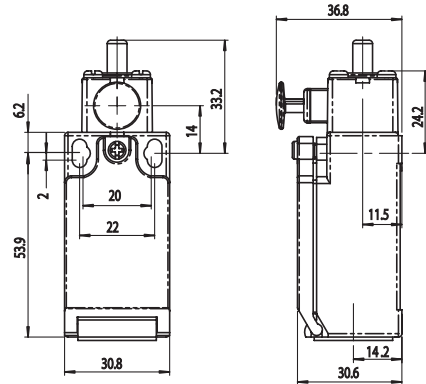
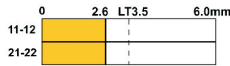
Push Plunger Type



Slow Action 1NC\1NO
EDR-__-1-31



Slow Action 2NC
EDR-__-2-31

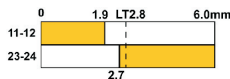


EDR-32

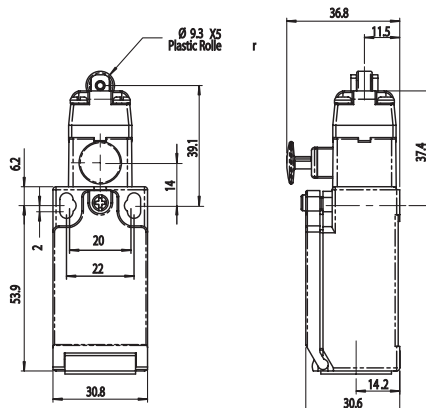
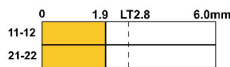
Roller Plunger Type



Slow Action 1NC\1NO
ED-__-1-32



Slow Action 2NC
ED-__-2-32



EDR SERIES SAFETY LIMIT SWITCHES WITH RESET

Operating Characteristics

Unit: mm

Item

Operating Characteristics

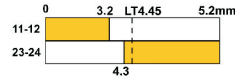
Dimensions

ED-62

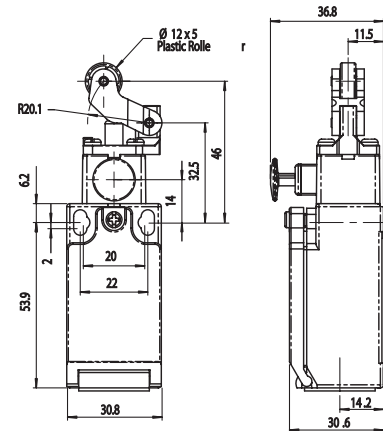
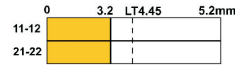
Roller Lever Type



Slow Action 1NC\1NO
ED-__-1-62



Slow Action 2NC
ED-__-2-62

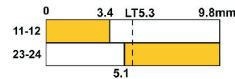


EDR-63

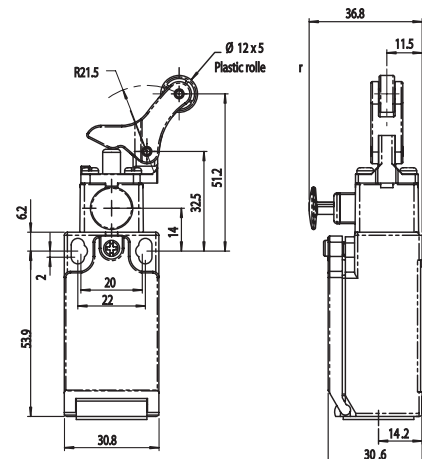
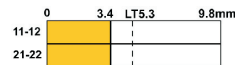
One-Way Roller Arm Lever Type



Slow Action 1NC\1NO
ED-__-1-63



Slow Action 2NC
ED-__-2-63



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