

GRP Plug & Receptacle  
EDPR Series

❖ Features

- Enclosure in GRP, provide excellent resistant to corrosion so have a long life.
- Enclosure contain ultraviolet interception ingredient to resist transformation.
- High mechanical impact and shock resistance.
- Switches with large handles can be locked in 0 and 1 position.
- Fully color-coded plug enclosure in color for voltage.

❖ Application

EDPR Series Plug & Receptacles are used in ;

- Hazardous locations due to the presence of flammable gases or vapors, water and moisture.
- Petroleum refineries, chemical and petrochemical plant with indoor and outdoor processes.
- Heavy process industries having environments where flammable or explosive vapors or gases, or where combustible dusts are present.



❖ Standard Materials

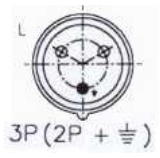
- Housing : GRP (Glass fiber reinforced polyester resin)
- Gasket : Silicone rubber
- External Hardware : Stainless steel, Brass

❖ Type Designation

|      |     |   |   |   |   |
|------|-----|---|---|---|---|
| EDPR | **A | / | * | * | * |
| ①    | ②   | ③ | ④ | ⑤ |   |

| No. | Description       | Symbol |                       |
|-----|-------------------|--------|-----------------------|
| ①   | Basic Description | EDPR   | GRP Plug & Receptacle |
| ②   | Type              | 16     | 16A                   |
|     |                   | 32     | 32A                   |
|     |                   | 63     | 63A                   |
|     |                   | 125    | 125A                  |
| ③   | Pin               | 3      | 3P (EDPR 16A)only     |
|     |                   | 4      | 4P                    |
|     |                   | 5      | 5P                    |
| ④   | Voltage           | 1      | 110V ~ 130V           |
|     |                   | 2      | 200V ~ 250V           |
|     |                   | 3      | 380V ~ 415V           |
|     |                   | 4      | 440V ~ 460V           |
|     |                   | 5      | 480V ~ 500V           |
|     |                   | 6      | 600V ~ 690V           |
| ⑤   | Part              | P      | Plug                  |
|     |                   | R      | Receptacle            |

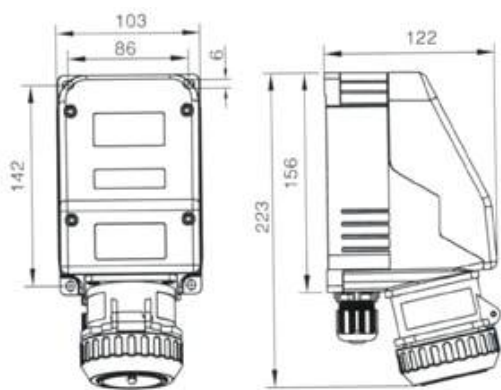
❖ 16A Receptacle

|  | Number of poles                                                                                  | Voltage  | Color                                                                                     | Catalog No. | Certification                                                                                                                           |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                   | <br>3P (2P + ≍) | 200~250V | Blue<br> | EDPR 16A32R | <b>IECEX KTL 11.0005</b><br>Ex de IIC T6 Gb IP66<br><br><b>INERIS 11ATEX0036X</b><br>Ex db eb IIC T6 Gb IP66<br>Ex tb IIIC T80℃ Db IP66 |

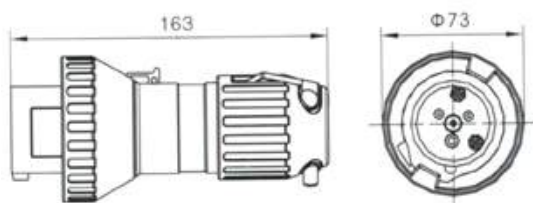
❖ 16A Plug

|  | Number of poles                                                                                  | Voltage  | Color                                                                                     | Catalog No. | Certification                                                                                                                           |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                   | <br>3P (2P + ≍) | 200~250V | Blue<br> | EDPR 16A32P | <b>IECEX KTL 11.0005</b><br>Ex de IIC T6 Gb IP66<br><br><b>INERIS 11ATEX0036X</b><br>Ex db eb IIC T6 Gb IP66<br>Ex tb IIIC T80℃ Db IP66 |

❖ Dimension

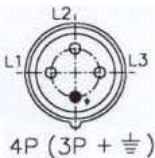


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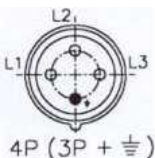


<Plug>

❖ 32A Receptacle

|  | Number of pins                                                                                                 | Voltage | Color | h | Catalog No. | Certification                                                                                      |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------|-------|---|-------------|----------------------------------------------------------------------------------------------------|
|                                                                                   | <br>4P (3P + $\frac{1}{2}$ )  | 200-250 | blue  | 9 | EDPR 32A42R | IECEX KTL 19.0031X<br>Ex db eb IIC T6 Gb IP66<br><br>INERIS 21ATEX0004X<br>Ex db eb IIC T6 Gb IP66 |
|                                                                                   |                                                                                                                | 380-415 | red   | 6 | EDPR 32A44R |                                                                                                    |
|                                                                                   |                                                                                                                | 480-500 | black | 7 | EDPR 32A45R |                                                                                                    |
|                                                                                   |                                                                                                                | 600-690 | black | 5 | EDPR 32A46R |                                                                                                    |
|                                                                                   | <br>5P (3P+N+ $\frac{1}{2}$ ) | 200-250 | blue  | 9 | EDPR 32A52R |                                                                                                    |
|                                                                                   |                                                                                                                | 380-415 | red   | 6 | EDPR 32A54R |                                                                                                    |
|                                                                                   |                                                                                                                | 480-500 | black | 7 | EDPR 32A55R |                                                                                                    |

❖ 32A Plug

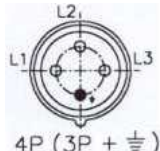
|  | Number of pins                                                                                                   | Voltage | Color | h | Catalog No. | Certification                                                                                      |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------|-------|---|-------------|----------------------------------------------------------------------------------------------------|
|                                                                                    | <br>4P (3P + $\frac{1}{2}$ )   | 200-250 | blue  | 9 | EDPR 32A42P | IECEX KTL 19.0031X<br>Ex db eb IIC T6 Gb IP66<br><br>INERIS 21ATEX0004X<br>Ex db eb IIC T6 Gb IP66 |
|                                                                                    |                                                                                                                  | 380-415 | red   | 6 | EDPR 32A44P |                                                                                                    |
|                                                                                    |                                                                                                                  | 480-500 | black | 7 | EDPR 32A45P |                                                                                                    |
|                                                                                    |                                                                                                                  | 600-690 | black | 5 | EDPR 32A46P |                                                                                                    |
|                                                                                    | <br>5P (3P+N+ $\frac{1}{2}$ ) | 200-250 | blue  | 9 | EDPR 32A52P |                                                                                                    |
|                                                                                    |                                                                                                                  | 380-415 | red   | 6 | EDPR 32A54P |                                                                                                    |
|                                                                                    |                                                                                                                  | 480-500 | black | 7 | EDPR 32A55P |                                                                                                    |

❖ Dimension

<Wall type socket>

<Plug>

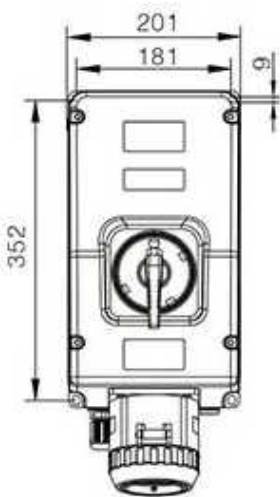
## ❖ 63A Receptacle

|                                                                                   |                                                                                                   |         |       |   |             |                                                                                                                                                                          |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------|-------|---|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Number of pins                                                                                    | Voltage | Color | h | Catalog No. | Certification                                                                                                                                                            |
|                                                                                   | <br>4P (3P + PE) | 200–250 | blue  | 9 | EDPR 63A42R | <b>IECEx KTL 14.0002X</b><br>Ex db eb IIC T6 Gb IP66<br>Ex tb IIIC T80°C Db IP66<br><br><b>INERIS 15ATEX0065X</b><br>Ex db eb IIC T6 Gb IP66<br>Ex tb IIIC T80°C Db IP66 |
|                                                                                   |                                                                                                   | 380–415 | red   | 6 | EDPR 63A44R |                                                                                                                                                                          |
|                                                                                   |                                                                                                   | 480–500 | black | 7 | EDPR 63A45R |                                                                                                                                                                          |
|                                                                                   |                                                                                                   | 600–690 | black | 5 | EDPR 63A46R |                                                                                                                                                                          |
|                                                                                   | <br>5P (3P+N+PE) | 200–250 | blue  | 9 | EDPR 63A52R |                                                                                                                                                                          |
|                                                                                   |                                                                                                   | 380–415 | red   | 6 | EDPR 63A54R |                                                                                                                                                                          |
|                                                                                   |                                                                                                   | 480–500 | black | 7 | EDPR 63A55R |                                                                                                                                                                          |

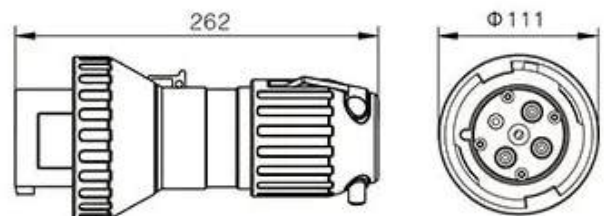
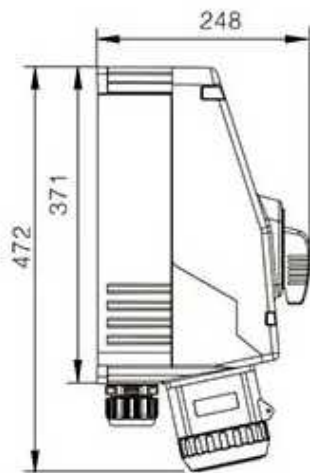
## ❖ 63A Plug

|  | Number of pins                                                                      | Voltage | Color | h | Catalog No. | Certification                                                                                                                                                          |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|-------|---|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                    |    | 200–250 | blue  | 9 | EDPR 63A42P | <b>IECEX KTL 14.0002X</b><br>Ex db eb IIC T6 Gb IP66<br>Ex tb IIIC T80℃ Db IP66<br><br><b>INERIS 15ATEX0065X</b><br>Ex db eb IIC T6 Gb IP66<br>Ex tb IIIC T80℃ Db IP66 |
|                                                                                    |                                                                                     | 380–415 | red   | 6 | EDPR 63A44P |                                                                                                                                                                        |
|                                                                                    |                                                                                     | 480–500 | black | 7 | EDPR 63A45P |                                                                                                                                                                        |
|                                                                                    |                                                                                     | 600–690 | black | 5 | EDPR 63A46P |                                                                                                                                                                        |
|                                                                                    |  | 200–250 | blue  | 9 | EDPR 63A52P |                                                                                                                                                                        |
|                                                                                    |                                                                                     | 380–415 | red   | 6 | EDPR 63A54P |                                                                                                                                                                        |
|                                                                                    |                                                                                     | 480–500 | black | 7 | EDPR 63A55P |                                                                                                                                                                        |

## ❖ Dimension

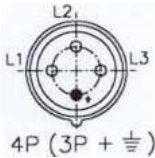


<Wall type socket>

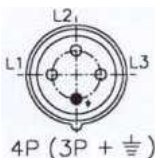


<Plug>

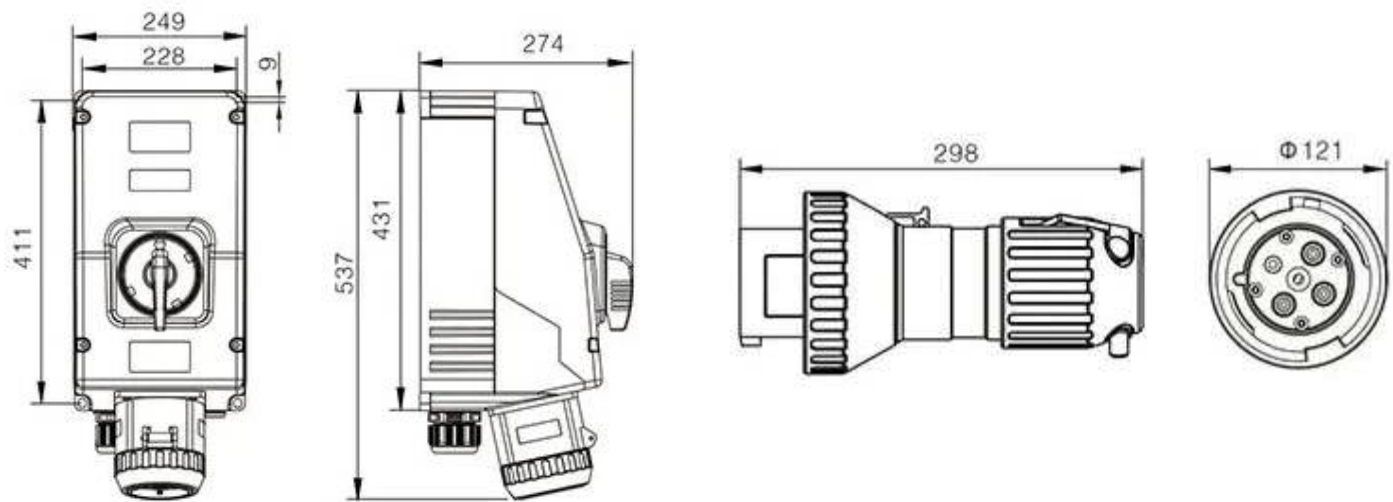
❖ 125A Receptacle

|  | Number of pins                                                                                              | Voltage | Color | h | Catalog No.  | Certification                                                                                                                                                          |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------|-------|---|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                   | <br>4P (3P + $\text{⏏}$ )  | 200–250 | blue  | 9 | EDPR 125A42R | <b>IECEx KTL 14.0002X</b><br>Ex db eb IIC T5 Gb IP66<br>Ex tb IIIC T95℃ Db IP66<br><br><b>INERIS 15ATEX0065X</b><br>Ex db eb IIC T6 Gb IP66<br>Ex tb IIIC T90℃ Db IP66 |
|                                                                                   |                                                                                                             | 380–415 | red   | 6 | EDPR 125A44R |                                                                                                                                                                        |
|                                                                                   |                                                                                                             | 480–500 | black | 7 | EDPR 125A45R |                                                                                                                                                                        |
|                                                                                   |                                                                                                             | 600–690 | black | 5 | EDPR 125A46R |                                                                                                                                                                        |
|                                                                                   | <br>5P (3P+N+ $\text{⏏}$ ) | 222–250 | blue  | 9 | EDPR 125A52R |                                                                                                                                                                        |
|                                                                                   |                                                                                                             | 380–415 | red   | 6 | EDPR 125A54R |                                                                                                                                                                        |
|                                                                                   |                                                                                                             | 600–690 | black | 7 | EDPR 125A55R |                                                                                                                                                                        |

❖ 125A Plug

|  | Number of pins                                                                                                | Voltage | Color | h | Catalog No.  | Certification                                                                                                                                                          |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------|-------|---|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                    | <br>4P (3P + $\text{⏏}$ )   | 200–250 | blue  | 9 | EDPR 125A42P | <b>IECEx KTL 14.0002X</b><br>Ex db eb IIC T5 Gb IP66<br>Ex tb IIIC T95℃ Db IP66<br><br><b>INERIS 15ATEX0065X</b><br>Ex db eb IIC T5 Gb IP66<br>Ex tb IIIC T90℃ Db IP66 |
|                                                                                    |                                                                                                               | 380–415 | red   | 6 | EDPR 125A44P |                                                                                                                                                                        |
|                                                                                    |                                                                                                               | 480–500 | black | 7 | EDPR 125A45P |                                                                                                                                                                        |
|                                                                                    |                                                                                                               | 600–690 | black | 5 | EDPR 125A46P |                                                                                                                                                                        |
|                                                                                    | <br>5P (3P+N+ $\text{⏏}$ ) | 200–250 | blue  | 9 | EDPR 125A52P |                                                                                                                                                                        |
|                                                                                    |                                                                                                               | 380–415 | red   | 6 | EDPR 125A54P |                                                                                                                                                                        |
|                                                                                    |                                                                                                               | 480–500 | black | 7 | EDPR 125A55P |                                                                                                                                                                        |

❖ Dimension



<Wall type socket>

<Plug>

❖ Technical Data

▀ Receptacle

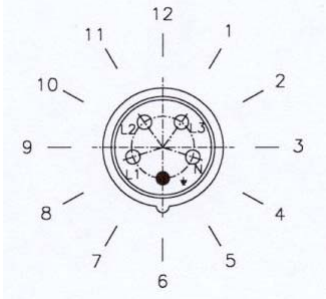
|                     |                                                                                             |                        |                         |
|---------------------|---------------------------------------------------------------------------------------------|------------------------|-------------------------|
|                     | EDPR 16A                                                                                    | EDPR 63A               | EDPR 125A               |
| Rated Voltage       | Max. 690V                                                                                   | Max. 690V              | Max. 690V               |
| Rated Current       | 16A                                                                                         | 63A                    | 125A                    |
| Interlock Switch    | 3 pole switch with isolating characteristics 1 auxiliary contact (ON-delayed, OFF-advanced) |                        |                         |
| Terminal            | 4 mm <sup>2</sup> X 2                                                                       | 35 mm <sup>2</sup> X 1 | 120 mm <sup>2</sup> X 1 |
| Ambient Temperature | -30℃ ~ +55℃                                                                                 | -30℃ ~ +55℃            | -30℃ ~ +55℃             |
| Hub                 | bottom 1 X M25                                                                              | bottom 1 X M50         | bottom 1 X M63          |

▀ Plug

|             |                   |                    |                    |
|-------------|-------------------|--------------------|--------------------|
| Terminal    | 4 mm <sup>2</sup> | 16 mm <sup>2</sup> | 35 mm <sup>2</sup> |
| Cable Entry | Max. Ø21mm        | Max. Ø36mm         | Max. Ø50mm         |

▀ Color and Arrangement

| Operating Voltage (V) | Frequency (Hz) | Color  | Earth pin position |    |    |
|-----------------------|----------------|--------|--------------------|----|----|
|                       |                |        | 3P                 | 4P | 5P |
| 110-130               | 50/60          | Yellow | 4                  | 4  | 4  |
| 200-250               | 50/60          | Blue   | 6                  | 9  | 9  |
| 380-415               | 50/60          | Red    | 9                  | 6  | 6  |
| 480-500               | 50/60          | Black  | 7                  | 7  | 7  |
| 600-690               | 50/60          | Black  | -                  | 5  | 5  |



Position Clockwise