

# EUROMOLD®

MEDIUM VOLTAGE  
SMART CONNECTORS & ADAPTERS  
FOR ZELISKO SENSORS

CATALOGUE 2022





# COMPANY PRESENTATION



## EUROMOLD

Euromold is the leading European specialised designer, manufacturer and distributor of prefabricated cable accessories for medium voltage energy distribution. Euromold provides a complete range of accessories for underground cables: premoulded EPDM rubber connectors for cables and epoxy bushings for transformers and switchgear, as well as a large range of cold-shrinkable terminations and joints from 12 to 42 kV. Euromold is also the manufacturer of electrical components for the high voltage accessories of the Nexans group.

## ISO 9001 Certificate

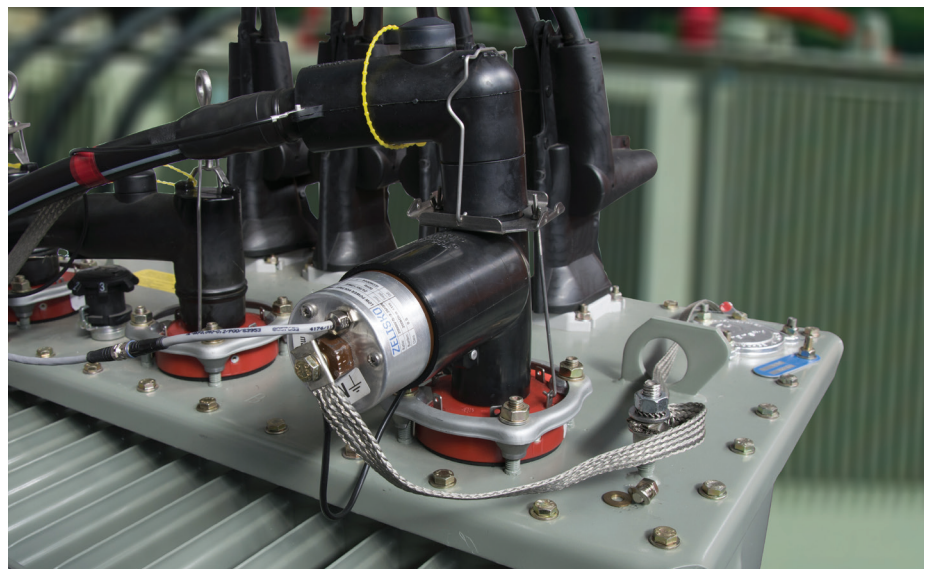
Since 1992, Euromold's commitment to quality is demonstrated by its ISO 9001 certification.

## International standards

All our products meet the International standards like CENELEC HD 629.1, CENELEC EN 50180, IEC 60137, IEC 60502-4... or country specifications. Official certificates, CESI, KEMA, ATEX... prove the conformity of our products. Long duration tests of existing or new products are continuously performed in our test fields.

## Laboratory accreditation

Since June 2000, Euromold's independent ELAB laboratory obtained the BELAC accreditation no.144-TEST conform with the European standards for laboratories ISO 17025 for electrical testing of low and medium voltage cable accessories according to the international standards EN 50393, IEC 60502-4, IEC 61442 and HD 629.



While every care is taken to ensure that the information contained in this publication is correct, no legal responsibility can be accepted for any inaccuracy. Nexans Network Solutions N.V. - Div. Euromold reserves the right to alter or modify the characteristics of its products described in this catalogue as standards and technology evolve.

# MEDIUM VOLTAGE SMART CONNECTORS & ADAPTERS

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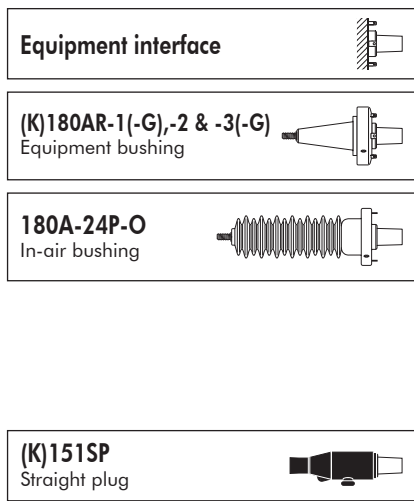
Interface A - Smart adapters

Interface C - Smart connectors

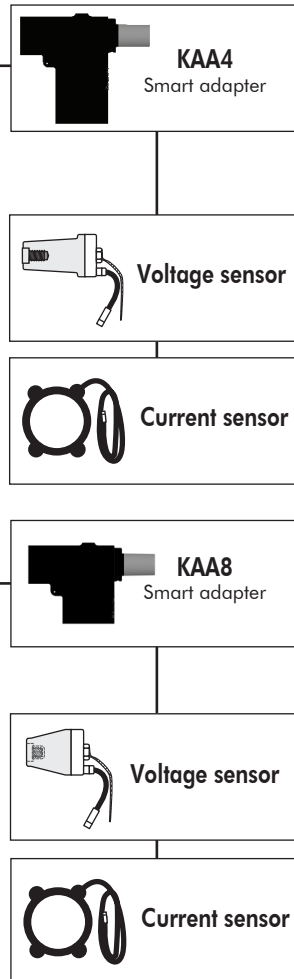
# SMART ADAPTERS

## CONNECTING POSSIBILITIES

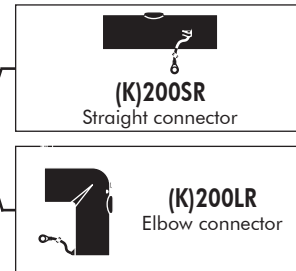
### BUSHINGS / ACCESSORIES / CONNECTOR



### SMART ADAPTER

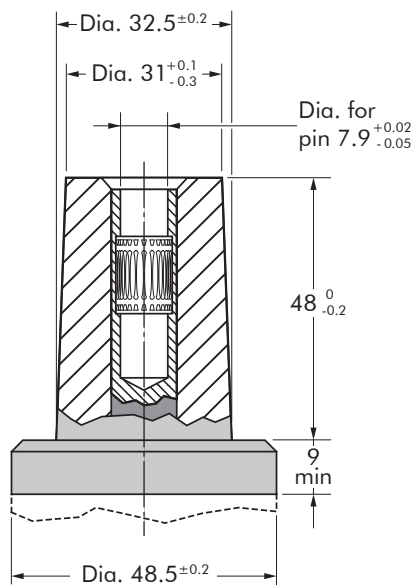


### CONNECTORS / ACCESSORIES



### INTERFACE A1

Dimensions according to European CENELEC EN 50180 and 50181 (in mm).



# KAAx SMART ADAPTER WITH ZELISKO SMVS VOLTAGE SENSORS

## INTERFACE A SMART ADAPTER

### APPLICATION

Intelligent adapter factory fitted with voltage sensor enabling a unique solution for voltage measurement.

Designed for easy installation on MV/LV transformers, for new implantations or retrofiting, and requiring no cable modification. To be used with Interface A 250 A separable connectors and equipment bushings.

Sensor can be interfaced with any IEC 60044-7 and -8 compliant Intelligent Electronic Device (IED) for protection and monitoring or other compatible application.

### DESIGN

Smart Adapter comprising:

1. Conductive EPDM insert.
2. Conductive EPDM jacket.
3. Insulating EPDM layer.
4. Type A interface as described by CENELEC EN 50180 and 50181.
5. Conductor contact.
6. Earthing lead.
7. Zelisko voltage sensor.
8. Sensor secondary cable.

### SPECIFICATIONS AND CABLE STANDARDS

The KAA smart adapter meets the requirements of CENELEC HD 629.1.

The SMVS sensors meet the requirements of IEC 60044-7 standard

### TECHNICAL CHARACTERISTICS

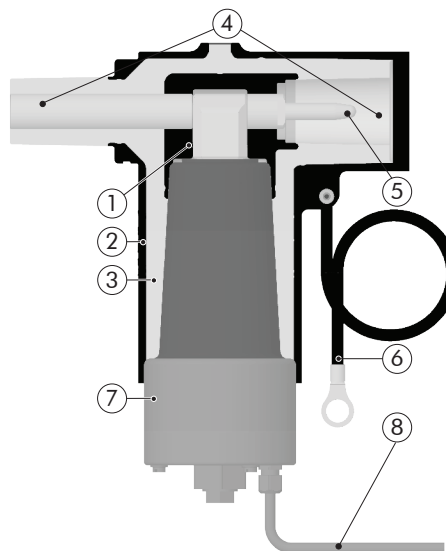
- High and stable measurement accuracy without on-site calibration ("Plug and Play" design) as low as 0,2 class for voltage measurement and 0,5 class for current measurement.
- Fully certified mechanical and electrical assembly supported by joint qualification according to HD629.1.
- Each adapter assembly is tested for AC withstand and partial discharge prior to leaving the factory.



6/10 (12) kV  
 6.35/11 (12) kV  
 8.7/15 (17.5) kV  
 12/20 (24) kV  
 12.7/22 (24) kV

Up to 24 kV - 250 A

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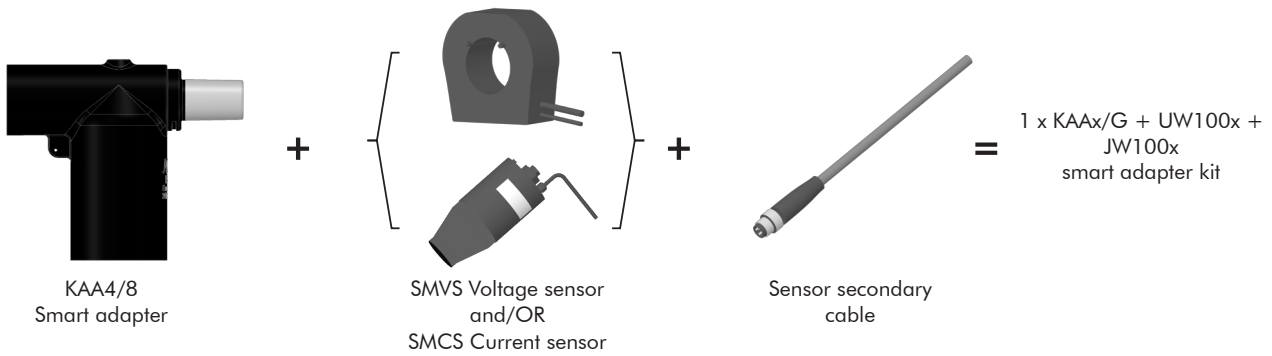
Smart adapter model	Voltage measurement			Current measurement		
	Model	Voltage Um (kV)	Type	Model	Max Application Current (A)	Type
KAA4	UW1001	up to 24 kV	Resistive divider	JW1002	300	Low Power Inductive
KAA8	UW1002-3					

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## KIT CONTENTS

Kit configuration may change for different applications, please contact us for a customized offer.

The kit also comprises lubricant, wipers and installation instructions.



## ORDERING INSTRUCTIONS

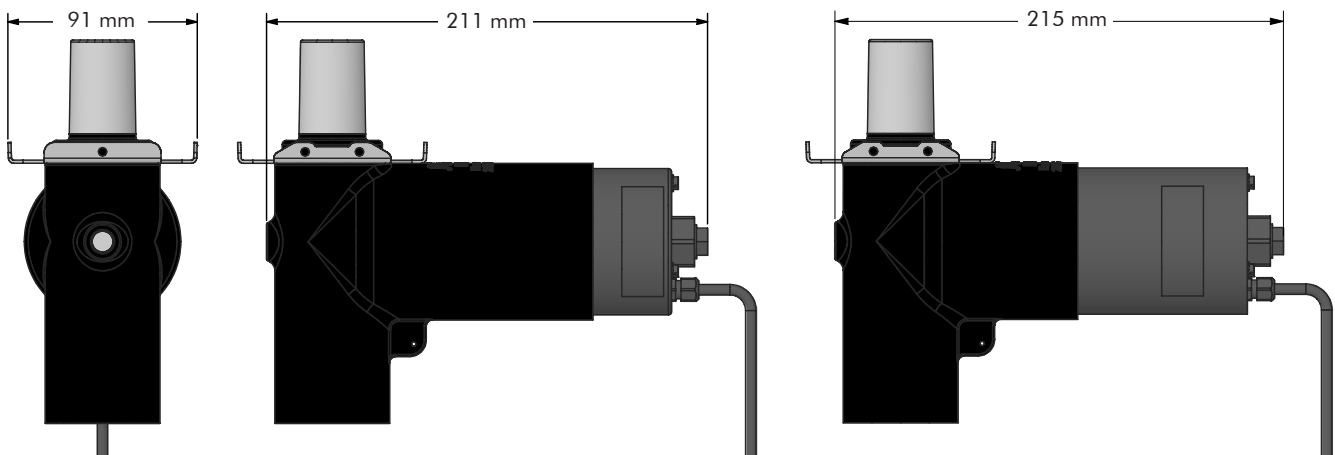
To order the right adapter or sensor for your application, refer to their specific catalog pages.

## SENSOR ASSEMBLY

Current sensor JW1002 shall be installed on shielded cable using a clamping system which allows assembly on different diameters of MV cable. Voltage sensors UW100x are assembled in place of the insulating plug in cable connectors.

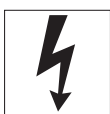
Characteristic	Voltage sensor	Current sensor
		Split core
Model	UW100x	JW1002
Rated primary voltage/current	max. 20/ $\sqrt{3}$ kV	300A
Rated frequency	50/60Hz	
Accuracy class	0,5/3P	0,5/5P10
Rated burden	200 k Ohm/350pF	> 20 k Ohm
Rated transformation ratio	3,25/ $\sqrt{3}$ V	300A//225mV Ext. 200%
Inner diameter	-	55 mm
Secondary cable length	3,7 m	
Plug type	Open, 2 pins	

## LAYOUT

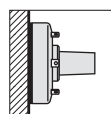


KAA4+SMVS-UW1001

KAA8+SMVS-UW1002-3



Rated voltage  
12/20 (24) kV



Interface A  
(250A)



For other cables length and custom applications. Please contact our representative.

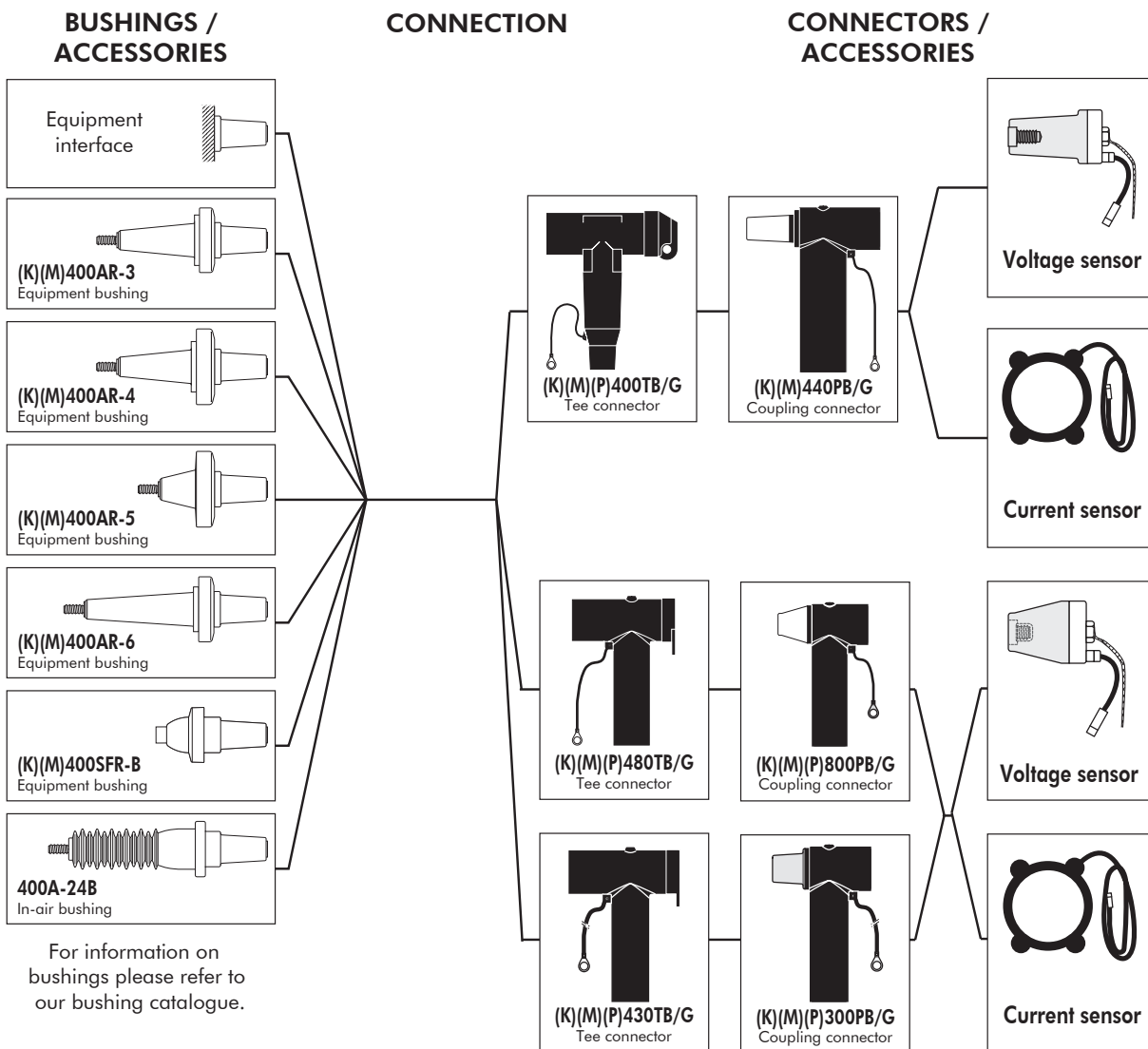


Components can be ordered individually.



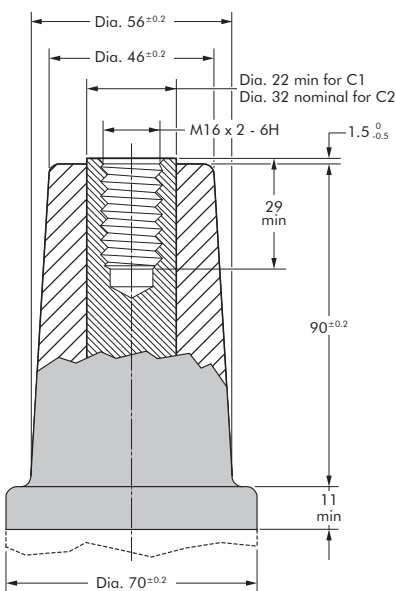
# SMART CONNECTORS

## CONNECTING POSSIBILITIES



## INTERFACE C1 & C2

Dimensions according to European CENELEC EN 50180 and 50181 (in mm).



In mm.

# 400/440TB & 440PB WITH ZELISKO SMVS VOLTAGE SENSORS

## INTERFACE C SMART CONNECTOR

### APPLICATION

Voltage and/or current measurement sensors on medium voltage connectors attached to equipment (transformers, switchgear, motors,...). Sensor can be interfaced with any IEC 60044-7 and -8 compliant Intelligent Electronic Device (IED) for protection and monitoring or other compatible application.

### DESIGN

Separable connector comprising:

1. Conductive EPDM insert.
2. Conductive EPDM jacket.
3. Insulating EPDM layer.
4. Type C interface as described by CENELEC EN 50180 and 50181.
5. Conductor contact.
6. Cable reducer.
7. Zelisko SMVS sensor.
8. Data cable.
9. Secondary data cable.

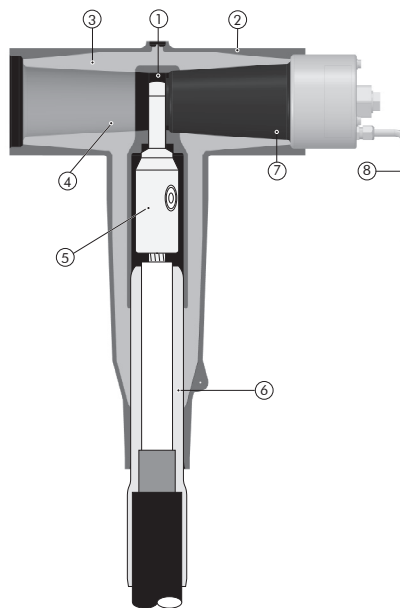
### SPECIFICATIONS AND STANDARDS

The 400TB separable connector meets the requirements of CENELEC HD 629.1.

The SMVS and SMCS sensors meet the requirements of IEC 60044-7 and 60044-8 standards.

### TECHNICAL CHARACTERISTICS

- High and stable measurement accuracy without on-site calibration ("Plug and Play" design) as low as 0,2 class for voltage measurement and 0,5 class for current measurement.
- Fully certified mechanical and electrical assembly supported by joint qualification according to HD629.1.



6/10 (12) kV  
 6.35/11 (12) kV  
 8.7/15 (17.5) kV  
 12/20 (24) kV  
 12.7/22 (24) kV  
 18/30 (36) kV

**Up to 36kV - 630A**

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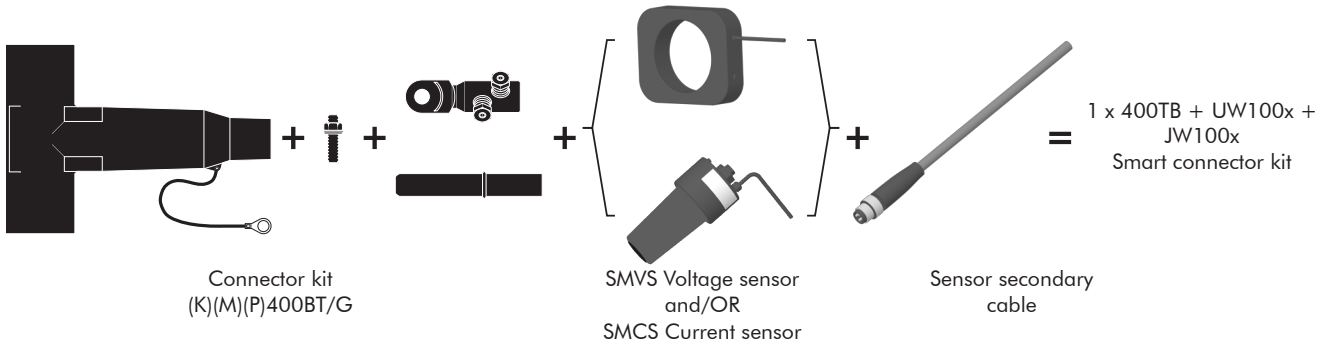
Connector model	Voltage measurement			Current measurement		
	Model	Voltage Um (kV)	Type	Model	Max application current (A)	Type
(K)400TB/G 400PB-10SA (K)440TB/G (K)440PB/G	UW1001	Up to 36	Resistive divider	JW1001	300	Low Power Inductive
JW1002						

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## KIT CONTENTS

Kit configuration may change for different applications, please contact us for a customized offer.

The kit also comprises lubricant, wipers, installation instructions and crimp chart.



## ORDERING INSTRUCTIONS

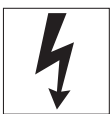
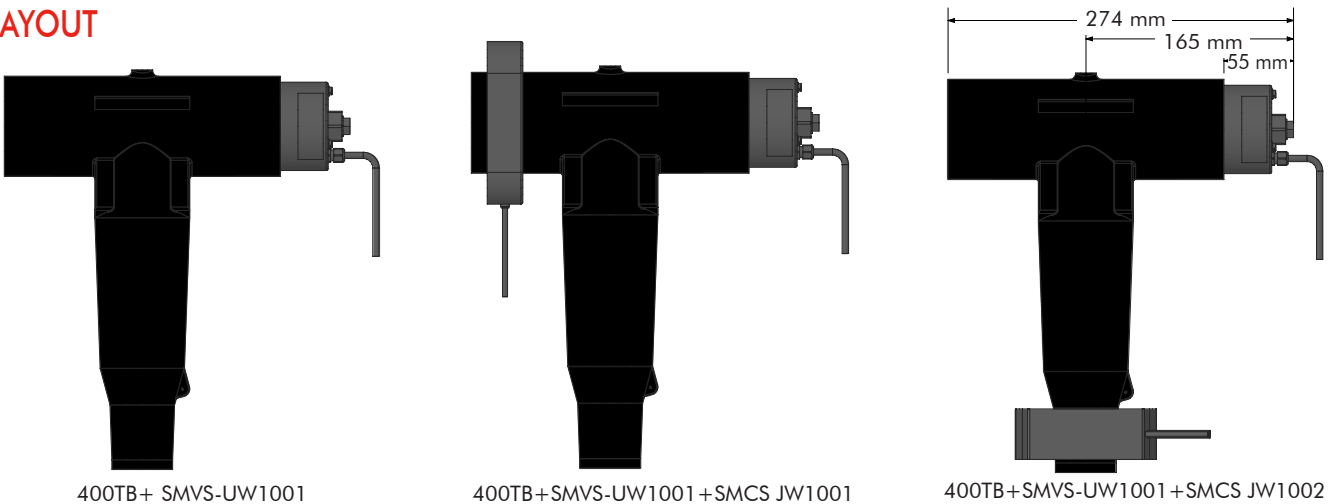
To order the right connector or sensor for your application, refer to the specific catalog pages.

## SENSOR ASSEMBLY

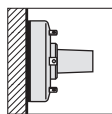
Current sensor JW1001 shall be installed on shielded head of cable connector using clamping system. Current sensor JW1002 shall be installed on shielded cable using a clamping system which allows assembly on different diameters of MV cable. Voltage sensors UW1001 are assembled in place of the insulating plug in cable connectors.

Characteristic	Voltage sensor	Current sensor	
		Closed core	Split core
Model	UW1001	JW1001	JW1002
Rated primary voltage/current	max. 30/ $\sqrt{3}$ kV	300A	
Rated frequency	50/60Hz		
Accuracy class	0,5/3P	0.5/5P10	
Rated burden	200 k Ohm/350pF	> 20 k Ohm	
Rated transformation ratio	3,25/ $\sqrt{3}$ V	300A//225mV Ext. 200%	
Inner diameter	-	82 mm	55 mm
Secondary cable length	3,7 m		
Plug type	Open, 2 pins		

## LAYOUT



Rated voltage  
18/30 (36) kV



Interface C  
(630A)



For other cables length and custom applications. Please contact our representative.



Components can be ordered individually.

# 480TB & 800PB WITH ZELISKO SMVS VOLTAGE SENSORS

## INTERFACE C SMART CONNECTOR

### APPLICATION

Voltage and/or current measurement sensors on medium voltage connectors attached to equipment (transformers, switchgear, motors,...). Sensor can be interfaced with any IEC 60044-7 and -8 compliant Intelligent Electronic Device (IED) for protection and monitoring or other compatible application.

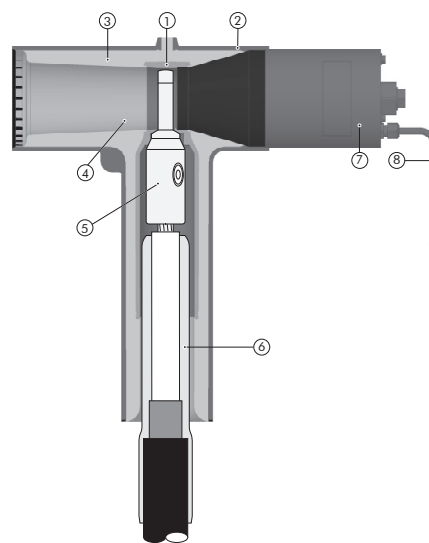
### DESIGN

Separable connector comprising:

1. Conductive EPDM insert.
2. Conductive EPDM jacket.
3. Insulating EPDM layer
4. Type C interface as described by CENELEC EN 50180 and 50181.
5. Conductor contact.
6. Cable reducer.
7. Zelisko SMVS sensor.
8. Data cable.

### TECHNICAL CHARACTERISTICS

- High and stable measurement accuracy without on-site calibration ("Plug and Play" design) as low as 0,2 class for voltage measurement and 0,5 class for current measurement
- Fully certified mechanical and electrical assembly supported by joint qualification according to HD629.1.



6/10 (12) kV  
 6.35/11 (12) kV  
 8.7/15 (17.5) kV  
 12/20 (24) kV  
 12.7/22 (24) kV  
 18/30 (36) kV

**Up to 36 kV - 630 A**

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### SPECIFICATIONS AND STANDARDS

The 480TB separable connector meets the requirements of CENELEC HD 629.1.S2.

The SMVS and SMCS sensors meet the requirements of IEC 60044-7 and 60044-8 standards.

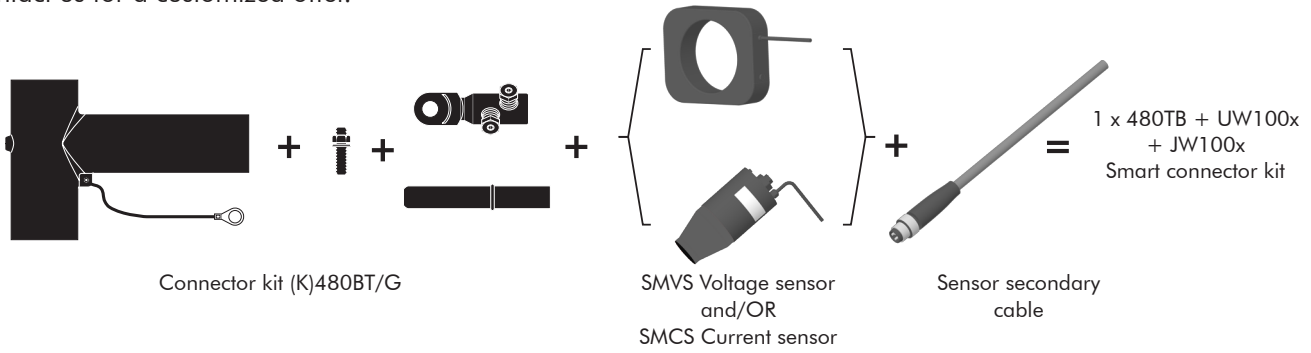
Connector model	Voltage measurement			Current measurement		
	Model	Voltage Um (kV)	Type	Model	Max application current (A)	Type
(K)480TB/G (K)484TB/G (K)489TB/G (K)800PB/G (K)804PB/G (K)809PB/G 800SA	UW1002-3	Up to 36	Resistive divider	JW1001  JW1002	300	Low Power Inductive

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## KIT CONTENTS

Kit configuration may change for different applications, please contact us for a customized offer.

The kit also comprises lubricant, wipers, installation instructions and crimp chart.



## ORDERING INSTRUCTIONS

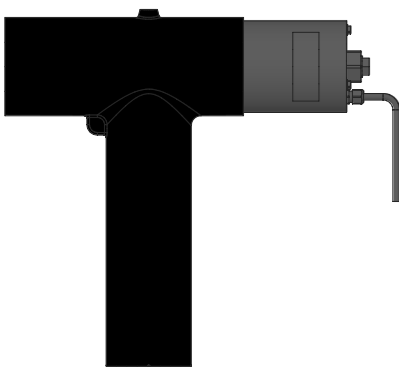
To order the right connector or sensor for your application, refer to the specific catalog pages.

## SENSOR ASSEMBLY

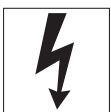
Current sensor JW1001 shall be installed on shielded head of cable connector using clamping system. Current sensor JW1002 shall be installed on shielded cable using a clamping system which allows assembly on different diameters of MV cable. Voltage sensors UW1002-3 are assembled in place of the insulating plug in cable connectors.

Characteristic	Voltage sensor	Current sensor	
		Closed core	Split core
Model	UW1002-3	JW1001	JW1002
Rated primary voltage/current	max. 30/ $\sqrt{3}$ kV	300A	
Rated frequency	50/60Hz		
Accuracy class	0,5/3P	0.5/5P10	
Rated burden	200 k Ohm/350pF	> 20 k Ohm	
Rated transformation ratio	3,25/ $\sqrt{3}$ V	300A//225mV Ext. 200%	
Inner diameter	-	82 mm	55 mm
Secondary cable length	3,7 m		
Plug type	Open, 2 pins		

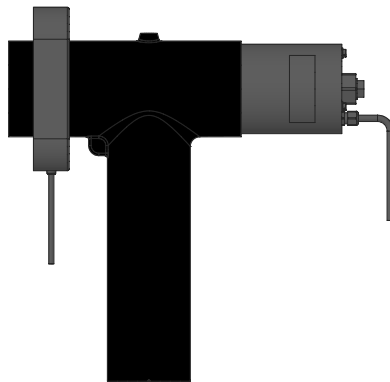
## LAYOUT



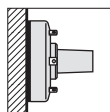
480TB+SMVS-UW1002-3



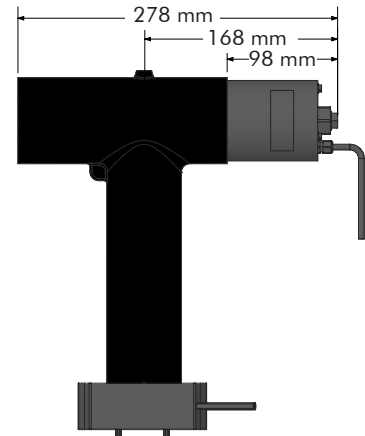
Rated voltage  
18/30 (36) kV



480TB+SMVS-UW1002-3+SMCS JW1001



Interface C  
(630A)



480TB+ SMVS-UW1002-3+SMCS JW1002



For other cables length  
and custom  
applications. Please  
contact our  
representative.



Components can be  
ordered individually.

# 430TB & 300PB WITH ZELISKO SMVS VOLTAGE SENSORS

## INTERFACE C SMART CONNECTOR

### APPLICATION

Voltage and/or current measurement sensors on medium voltage connectors attached to equipment (transformers, switchgear, motors,...). Sensor can be interfaced with any IEC 60044-7 and -8 compliant Intelligent Electronic Device (IED) for protection and monitoring or other compatible application.

### DESIGN

Separable connector comprising:

1. Conductive EPDM insert.
2. Conductive EPDM jacket.
3. Insulating EPDM layer
4. Type C interface as described by CENELEC EN 50180 and 50181.
5. Conductor contact.
6. Cable reducer.
7. Zelisko SMVS sensor.
8. Data cable.

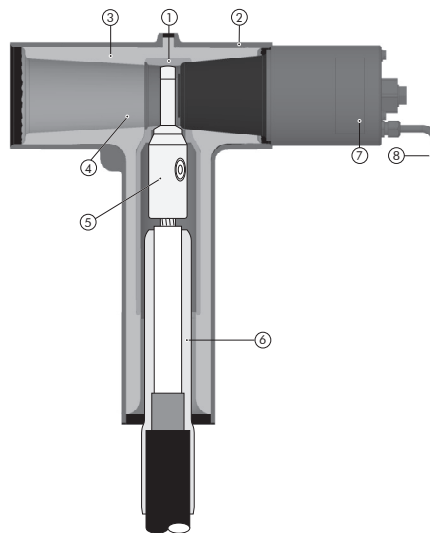
### SPECIFICATIONS AND STANDARDS

The 430TB separable connector meets the requirements of CENELEC HD 629.1.

The SMVS and SMCS sensors meet the requirements of IEC 60044-7 and 60044-8 standards.

### TECHNICAL CHARACTERISTICS

- High and stable measurement accuracy without on-site calibration ("Plug and Play" design) as low as 0,2 class for voltage measurement and 0,5 class for current measurement
- Fully certified mechanical and electrical assembly supported by joint qualification according to HD629.1.



6/10 (12) kV  
 6.35/11 (12) kV  
 8.7/15 (17.5) kV  
 12/20 (24) kV  
 12.7/22 (24) kV  
 18/30 (36) kV

**Up to 36kV - 630 A**

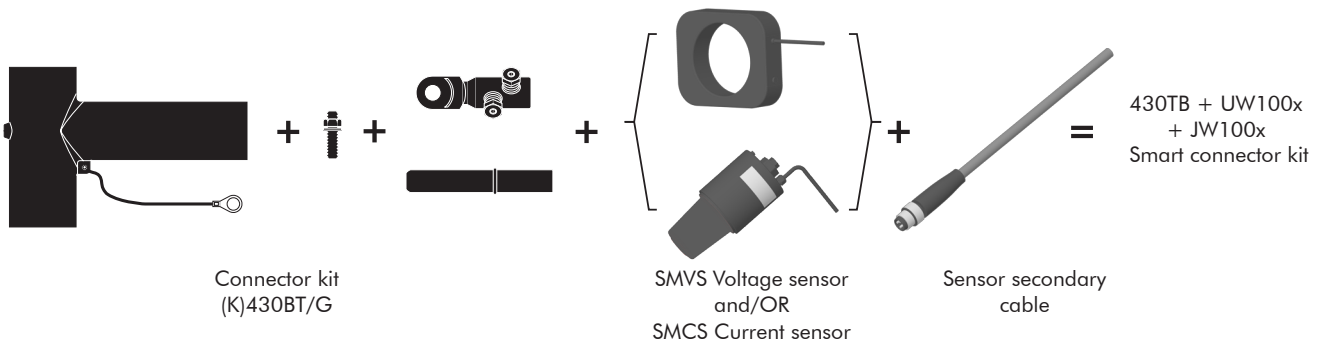
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Connector model	Voltage measurement			Current measurement		
	Model	Voltage Um (kV)	Type	Model	Max application current (A)	Type
(K)430TB/G (K)300PB/G 300SA	UW1002-1	Up to 36	Resistive divider	JW1001	300	Low Power Inductive
				JW1002		

## KIT CONTENTS

Kit configuration may change for different applications, please contact us for a customized offer.

The kit also comprises lubricant, wipers, installation instructions and crimp chart.



## ORDERING INSTRUCTIONS

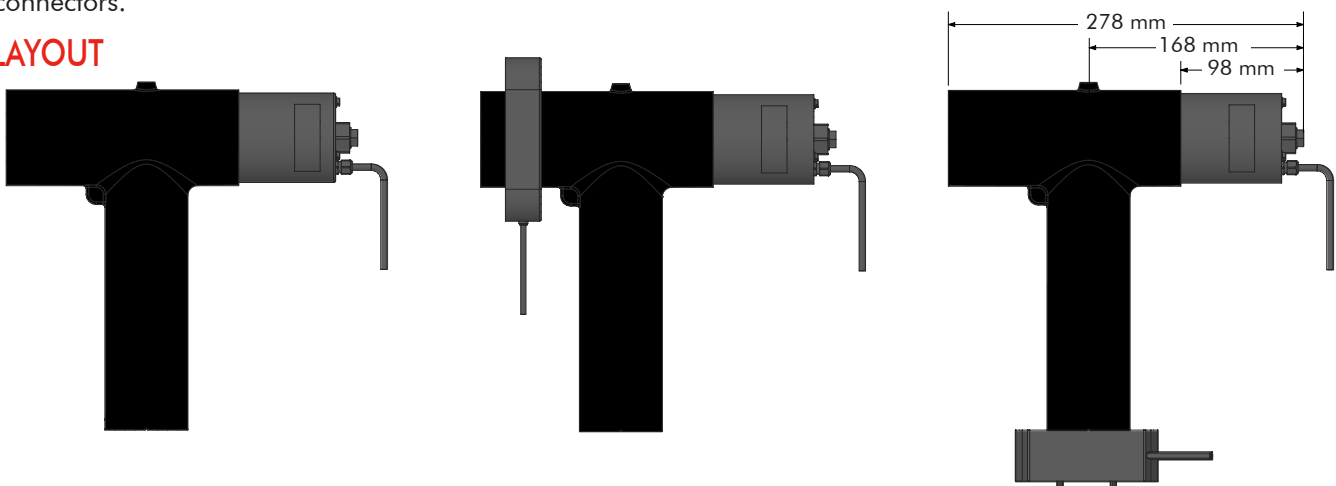
To order the right connector or sensor for your application, refer to the specific catalog pages.

## SENSOR ASSEMBLY

Current sensor JW1001 shall be installed on shielded head of cable connector using clamping system. Current sensor JW1002 shall be installed on shielded cable using a clamping system which allows assembly on different diameters of MV cable. Voltage sensors UW1002-1 are assembled in place of the insulating plug in cable connectors.

Characteristic	Voltage sensor	Current sensor	
		Closed core	Split core
Model	UW1002-1	JW1001	JW1002
Rated primary voltage/current	max. 30/ $\sqrt{3}$ kV	300A	
Rated frequency	50/60Hz		
Accuracy class	0,5/3P	0.5/5P10	
Rated burden	200 k Ohm/350pF	> 20 k Ohm	
Rated transformation ratio	3,25/ $\sqrt{3}$ V	300A//225mV Ext. 200%	
Inner diameter	-	82 mm	55 mm
Secondary cable length	3,7 m		
Plug type	Open, 2 pins		

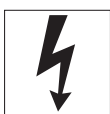
## LAYOUT



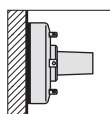
430TB+SMVS-UW1002-1

430TB+ SMVS-UW1002-1+SMCS JW1001

430TB+ SMVS-UW1002-1+SMCS JW1002



Rated voltage  
18/30 (36) kV



Interface A  
(250A)



For other cables length and custom applications. Please contact our representative.



Components can be ordered individually.











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