

KAAx SMART ADAPTER WITH ABB KEVA/KECA 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 61869-10 and IEC 61869-11 complaint 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. ABB KEVA voltage sensor.
8. Sensor secondary cable.

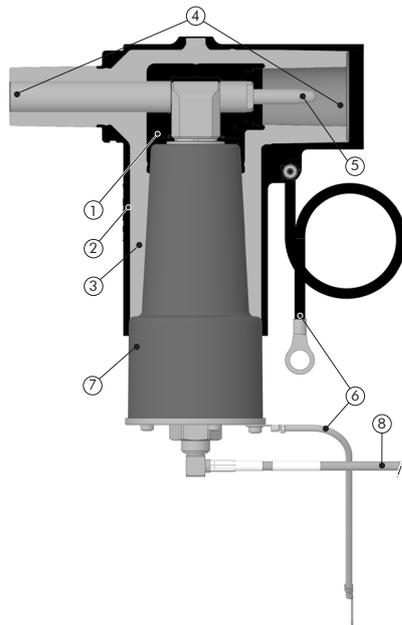
SPECIFICATIONS AND CABLE STANDARDS

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

The KEVA and KECA sensors meet the requirements of IEC61869-10 and -11.

TECHNICAL CHARACTERISTICS

- High combined accuracy class of 0.5/3P for voltage measurement and 0.5/5P630 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

EUROMOLD®

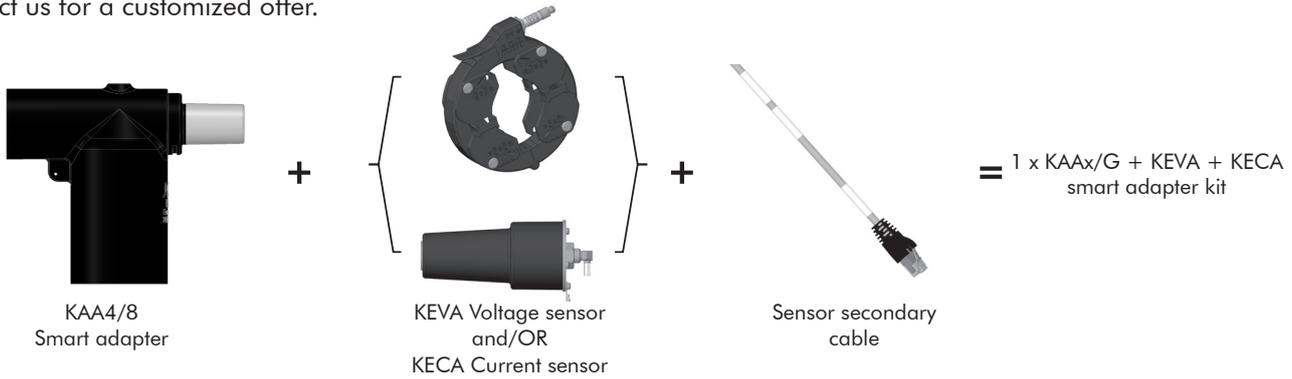
Smart adapter model	Voltage measurement			Current measurement		
	Model	Voltage Um (kV)	Type	Model	Max Application Current (A)	Type
KAA4	KEVA 24 C10	up to 24 kV	Resistive divider	KECA 80 D85	4000	Split core Rogowski
	KEVA 24 C10c		Resistive divider, conductive surface			
KAA8	KEVA 24 C2 4.1		Resistive divider			
	KEVA 24 C2 4.1c		Resistive divider, conductive surface			

06/2021

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

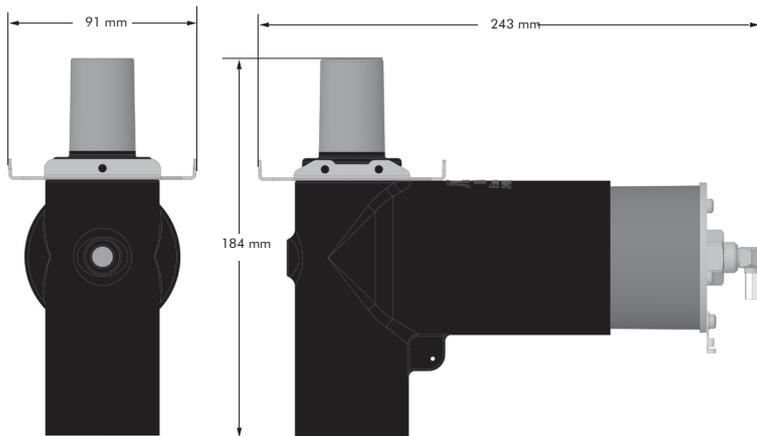
To order the right adapter or sensor for your application, refer to their specific catalog pages.

SENSOR ASSEMBLY

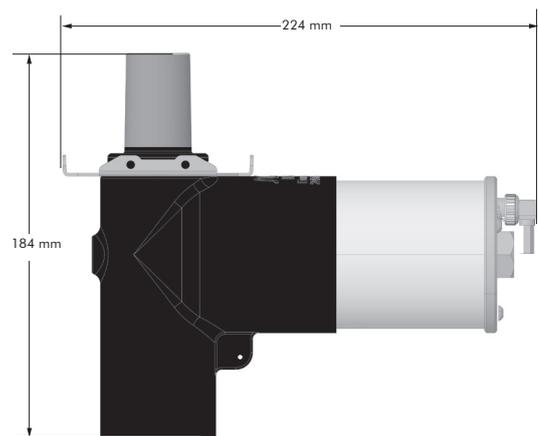
Current sensor KECA 80 D85 shall be installed on shielded cable using a clamping system which allows assembly on different diameters of MV cable. Voltage sensors KEVA C are assembled in place of the insulating plug in cable connectors.

Characteristic	Voltage sensor	Current sensor
		Split core
Model	KEVA 24 Cxx	KECA 80 D85
Rated primary voltage/current	up to 22/ $\sqrt{3}$ kV	80A
Rated frequency	50/60Hz	
Accuracy class	0,5/3P	0,5P/5P630
Rated burden	2M Ω / 50pF or 200k Ω / 350pF	2M Ω / 50pF
Rated transformation ratio	1:10000 V/V or 3.25 V/ $\sqrt{3}$ kV	80A/150mV @50Hz 80A/180mV @60Hz
Inner diameter	-	85 mm
Secondary cable length	5 m	
Plug type	RJ45 or open 2-pins	RJ45

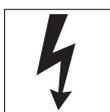
LAYOUT



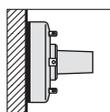
KAA4+KEVA 24 C10



KAA8+KEVA 24 C2 4.1C



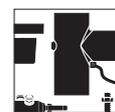
Rated voltage
12/20 (24) kV



Interface A
(250A)



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



Components can be ordered individually.