





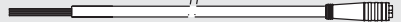
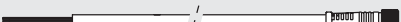
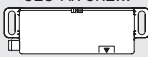







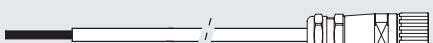
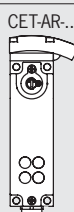



## Selection table for non-contact safety switches CES-AR/CET-AR



Connection cable	Safety switch	Actuator	Bolts
 <p>Page 144</p>	<p>CES-AR-C01...</p>  <p>Page 128</p>	<p>CES-A-BBA</p>  <p>Page 131</p> <p>CES-A-BCA</p>  <p>Page 131</p> <p>CES-A-BPA</p>  <p>Page 132</p> <p>CES-A-BRN</p>  <p>Page 133</p>	<p>Page 159/160</p>
 <p>Page 144</p>  <p>Page 144</p>	<p>CES-AR-CR2...</p>  <p>Page 134</p> <p>CES-AR-CL2...</p>  <p>Page 134</p>	<p>CES-A-BLN-R2</p>  <p>Page 138</p> <p>CES-A-BLN-U2</p>  <p>Page 138</p> <p>CES-A-BDN</p>  <p>Page 139</p> <p>CES-A-BLN-L2</p>  <p>Page 138</p> <p>CES-A-BLN-U2</p>  <p>Page 138</p> <p>CES-A-BDN</p>  <p>Page 139</p>	
 <p>Page 146</p>	<p>CET-AR...</p>  <p>Page 140</p>	<p>CET-A-BWK-50X</p>  <p>Page 140</p>	<p>Page 161</p>

## Possible combinations for CES components


To give you a quick overview of which CES components can be combined with each other, there is a combinations table for each evaluation unit and for each safety switch. The table will answer the following questions:

- ▶ Which actuator can be read by the selected safety switch?
- ▶ What is the operating distance of this combination?
- ▶ Which type of guard locking can be realized with the selected combination?

**Important: Only typical values are listed in the table. The minimum and maximum values are listed in the technical data for the related product.**

Key to symbols	15	Combination possible, typ. switch-on distance 15 mm
		Combination possible, guard locking for process protection
		Combination possible, guard locking for personal protection
		Combination not permissible

## Non-contact safety switches CES-AR/CET-AR

Safety switch	Actuator								
	CES-A-BBA 071 840	CES-A-BCA 088 786	CES-A-BPA 098 775	CES-A-BRN 100 251	CES-A-BLN-R2-100776 100 776	CES-A-BLN-L2-104510 104 510	CES-A-BLN-U2-103450 103 450	CES-A-BDN-06-104730 104 730	CET-A-BWK-50X 096 327
CES-AR-C01-AH-SA 098 941	18	18	22	27					
CES-AR-C01-CH-SA 098 942	18	18	22	27					
CES-AR-CR2...					15		15	19	
CES-AR-CL2...						15	15	19	
CET-AR...									

## Actuator CES-A-BBA/CES-A-BCA

► Cube-shaped design 42 x 25 mm



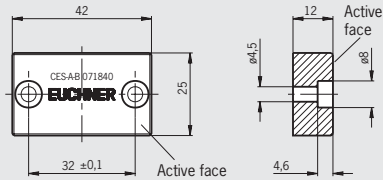
### Actuator CES-A-BBA (Fortron)

### Actuator CES-A-BCA (PE-HD) Housing material PE-HD

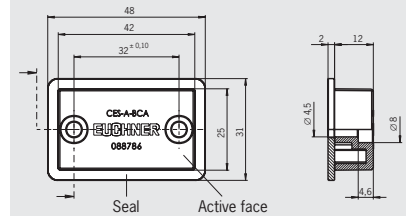


For possible combinations see page 127

#### Dimension drawing



2 safety screws  
M4x14 are  
supplied



2 safety screws  
M4x14 are  
supplied

### Ordering table

Series	Comment	Type	Order no.
CES-A-BBA	2 safety screws M4 x 14 are supplied	-	<b>071 840</b> CES-A-BBA
CES-A-BCA	2 safety screws M4 x 14 are supplied Flat seal included	Housing material PE-HD <sup>1)</sup>	<b>088 786</b> CES-A-BCA

1) Suitable for use in aggressive media (e. g. acids, alkalis)

### Technical data

Parameter	Value			Unit
	min.	typ.	max.	
Housing material	Fortron, reinforced thermoplastic, fully encapsulated			
- CES-A-BBA				
- CES-A-BCA	Plastic PE-HD without reinforcement, fully encapsulated			
Flat seal material (CES-A-BCA only)	Fluororubber 75 FPM 4100			
Dimensions	42 x 25 x 12			mm
Weight	0.02			kg
Ambient temperature				
- CES-A-BBA	-25	-	+70	°C
- CES-A-BCA	-25	-	+50	
Degree of protection	IP67/IP69K			
Installation position	Active face opposite read head			
Power supply	Inductive via read head			

## Actuator CES-A-BPA

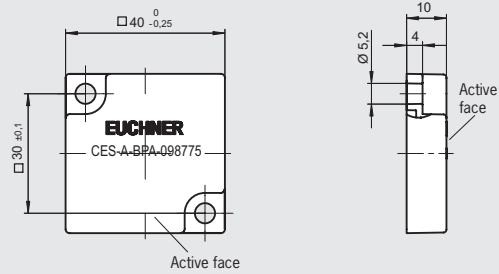
- ▶ Cube-shaped design 40 x 40 mm



For possible combinations see page 127

### Actuator CES-A-BPA

#### Dimension drawing



2 safety screws  
M4x14 are  
supplied

#### Ordering table

Series	Comment	Type	Order no.
CES-A-BPA	2 safety screws M5 x 10 are supplied	-	<b>098 775</b> CES-A-BPA

#### Technical data

Parameter	Value			Unit
	min.	typ.	max.	
Housing material	PBT			
Weight	0.025			kg
Degree of protection according to IEC 60529	IP67/IP69K			
Ambient temperature	-25	-	+70	°C
Installation position	Active face opposite read head			
Power supply	Inductive via read head			

## Actuator CES-A-BRN

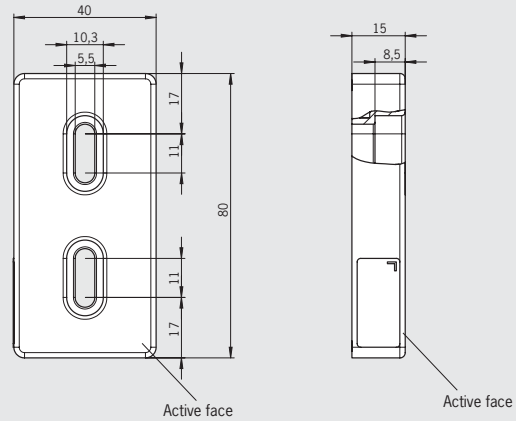
- ▶ Cube-shaped design 80 x 40 mm



For possible combinations see page 127

### Actuator CES-A-BRN

#### Dimension drawing



#### Ordering table

Series	Comment	Type	Order no.
CES-A-BRN	2 safety screws M5 x 16 are supplied	-	<b>100 251</b> CES-A-BRN-100251

#### Technical data

Parameter	Value			Unit
	min.	typ.	max.	
Housing material	PPS			
Dimensions	80 x 40 x 15			mm
Weight	0.06			kg
Ambient temperature	-25	-	+70	°C
Degree of protection acc. to EN IEC 60529	IP 67			
Installation position	Active face opposite read head			
Power supply	Inductive via read head			