



## KISSLING E-STOP Series ES

### FEATURES

- Sealed housing meets IP67 and IP6K9K standards
- 1-, 2- and 3-pole versions NO/NC
- 2-pole change-over version
- Continuous current up to 10 A
- Up to 40 000 cycles mechanical life

### APPLICATIONS



Commercial Vehicles



Remote Control Panels



Construction and Agricultural Vehicles



E-mobility Charging Station



Off-Road Vehicles



Lifting Vehicles



Hydraulic Systems

### QUALITY SAFETY SWITCH

It doesn't matter whether you call it an e-stop, emergency stop, emergency switch or e-stop switch, we have the right switch for your application. Our selection of sealed safety and emergency stop (e-stop) switches has been designed and manufactured to the highest quality standards. In addition to classic applications on emergency vehicles, work trucks, off-road equipment, and heavy machinery, the e-stop application area covers the complete e-mobility market including charging stations.

### COMPACT, SEALED, AND RUGGEDISED

The ES series is a compact, sealed, and ruggedised switch with small dimensions and a high resistance to shock, vibration, dust, and moisture. These characteristics are important for safe and reliable switching. Thanks to our fully sealed switch, no additional protection such as a box or enclosure is required. It is a plug-and-play system that can be used in hazardous environments. Safety-related switching applications are no place to compromise on quality.

### SPECIFICATIONS

Technical Data	
Protection	IEC 60529 IP67 and IP6K9K
Temperature Range	-40 °C to +85 °C
Material Terminals	Copper-Zinc
Thread Sizes/Torque	M30 x 1.5 = max. 6 Nm



## SPECIFICATIONS

### Mechanical Data (Change-Over)

Locking	EN 60947-5-5
Positive Opening Operation	EN 60947-5-5
Operating Force	20 - 50 N
Torque Knob Max.	3 Nm
Current Carrying Parts	Cu-alloy
Contact Material	Ag-alloy
Mechanical Life	40 000 cycles
Frequency	Max. 100/min.

### Electrical Data

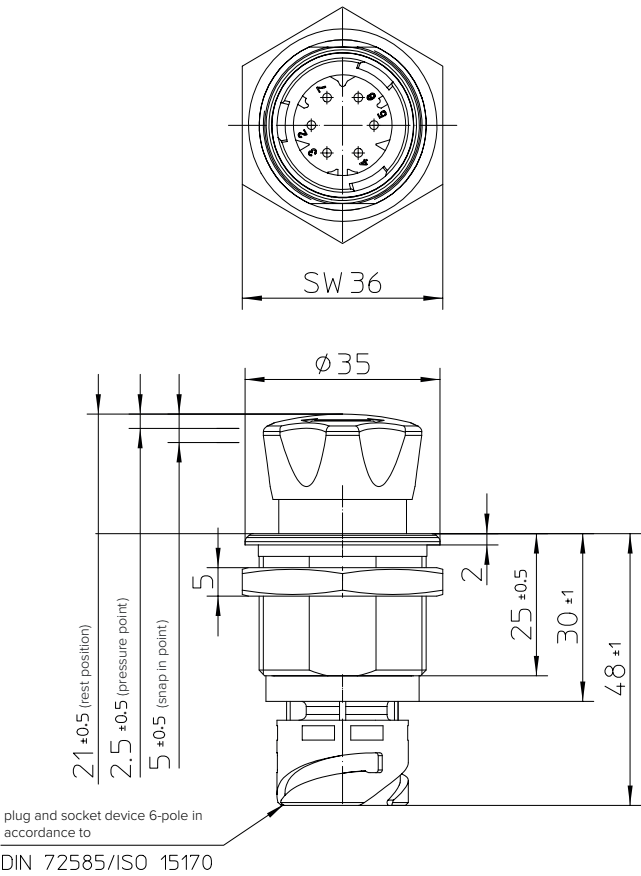
Voltage Range	9-32 VDC
Nominal Voltage	12 VDC/24 VDC
Dielectric Withstanding Voltage	1 050 VAC up to 1 min.
Contact Resistance	Max. 50 mΩ
Insulation Resistance	> 100 mΩ at 500 VDC
Continuous Current	10 mA - 10 A
Current Max.	10.1 A
Switching Capacity Min.	12 VDC, 10 mA
Short-Circuit Protection	Automotive fast-acting fuse 10 A is recommended on the same circuit.

## ACCESSORIES

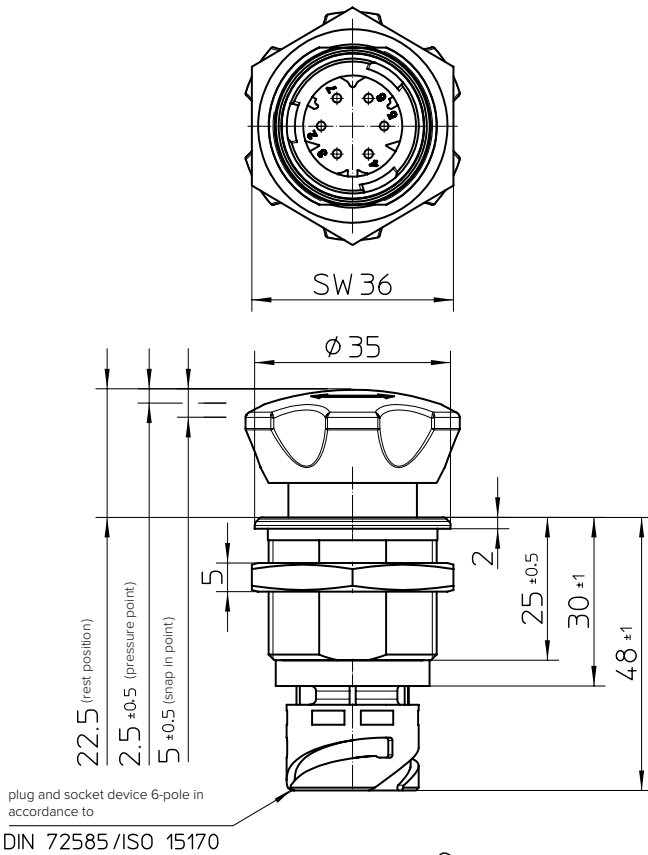
Description		Part Number
Actuation Protection		24-63-029
Symbol Label		24-63-024 de/en, 24-63-040 blank

TECHNICAL DRAWINGS

Product Sample ES-2012-T111

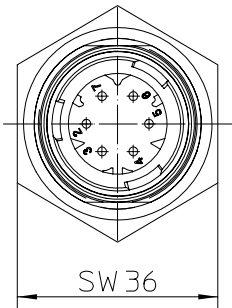


Product Sample ES-2012-T112

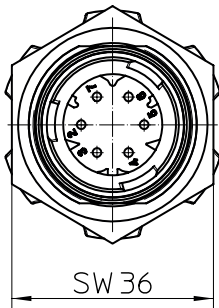


CONNECTORS

Product Sample ES-2012-T111



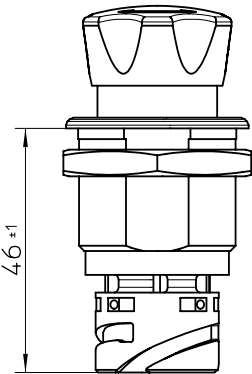
Product Sample ES-2012-T112



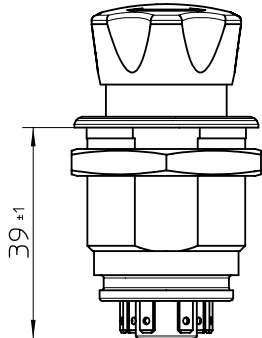
CONNECTORS

Bayonet Connection

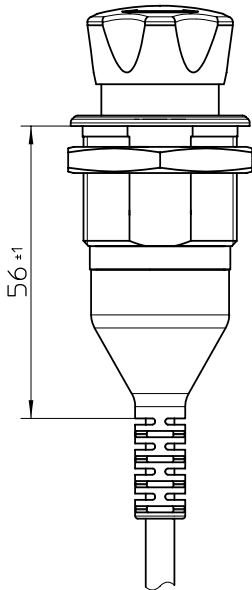
DIN 72585/ISO 15170



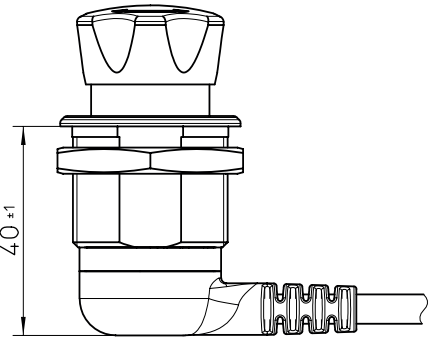
FASTON Connection



Cable Connection Axial



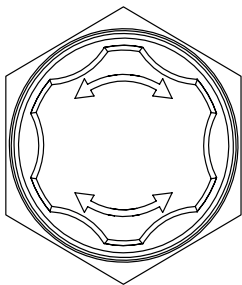
Cable Connection Laterally



ACTUATOR SYMBOLS

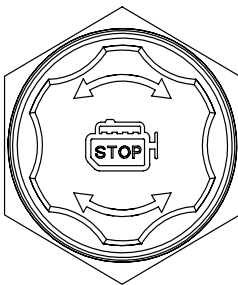
Arrow

T



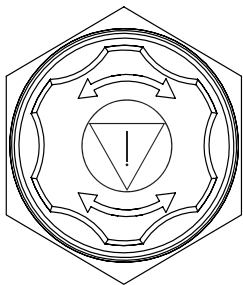
Motor

A

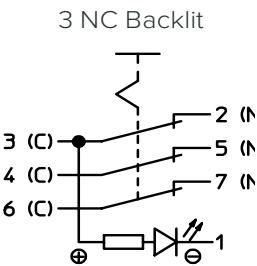
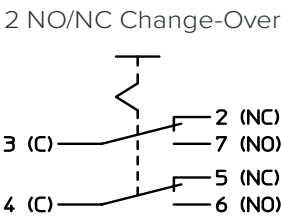
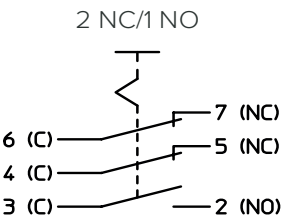


Safety

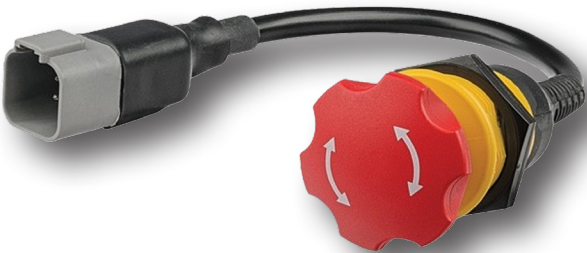
S



CIRCUITS



These are example circuits and not the only circuit possibilities.



## ORDERING INFORMATION

Part Number

Example: ES - 2 003-T412-020 C  
ES - - - - -

If the PN has a "-9xx" added at the end, it indicates some form of customisation to the basic PN.

### Housing

2	Central Thread
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### Switching Function

0-2	Number of NO/NC Contacts (3 pins)
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0-3	Number of NO Contacts (2 pins)
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0-3	Number of NC Contacts (2 pins)
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Maximum number of pins is 7 in total. Any combination of circuits/illumination is possible with 7 or fewer pins required.

### Actuator Symbol

T	Arrows Only
A	Motor Symbol With Arrows
S	Safety Symbol With Arrows

### Connector Information

-	On Request
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### Cable Length (in cm)

----	On Request
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### Actuator Size

1	30 mm
2	40 mm

### Illumination

1	No
2	Yes

### Connector

1	Plug and Socket Device
2	FASTON Connection
3	Cable Connection Axial
4	Cable Connection Laterally



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