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.

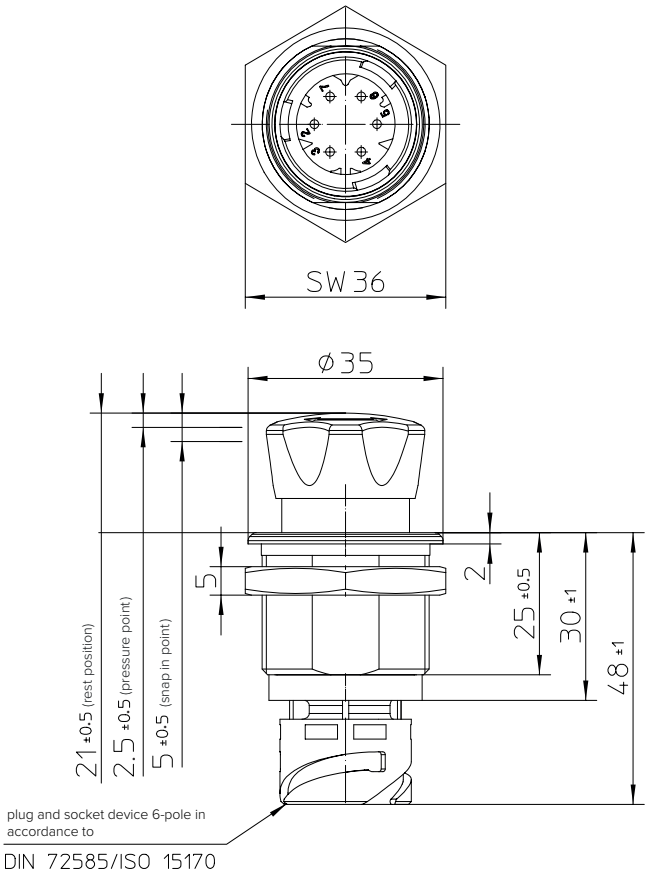
Electrical Data	
Voltage Range	9-32 VDC
Nominal Voltage	12 VDC/24 VDC
Dielectric Withstanding Voltage	1 050 VAC up to 1 min.
Contact Resistance	Max. 50 mΩ
Insulation Resistance	> 100 mΩ at 500 VDC
Continuous Current	10 mA - 10 A
Current Max.	10.1 A
Switching Capacity Min.	12 VDC, 10 mA
Short-Circuit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

ACCESSORIES

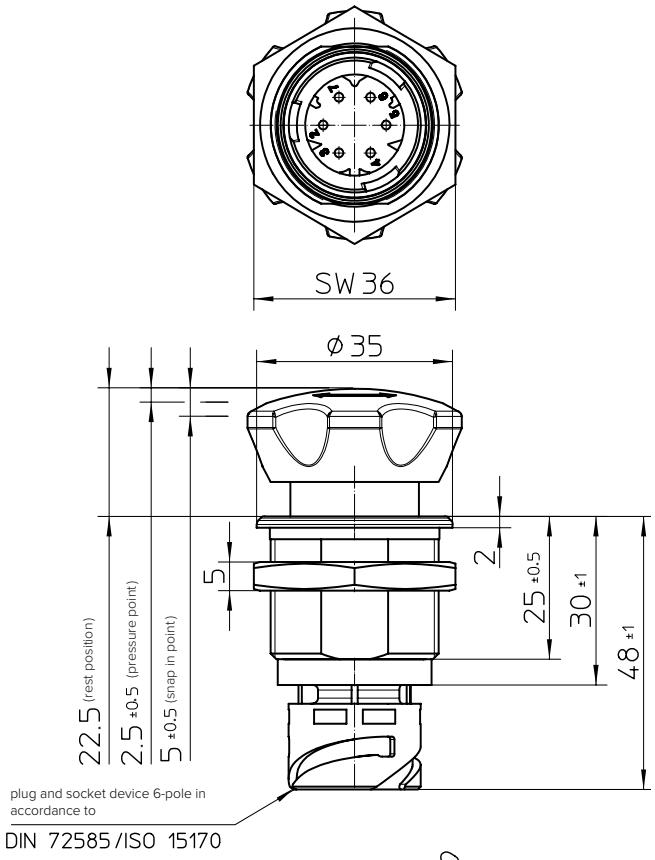
Description	Part Number
Actuation Protection 	24-63-029
Symbol Label 	24-63-024 de/en, 24-63-040 blank

TECHNICAL DRAWINGS

Product Sample ES-2012-T111

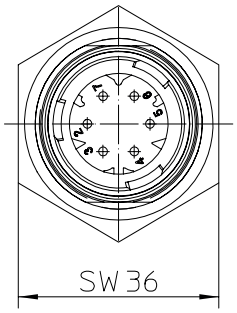


Product Sample ES-2012-T112

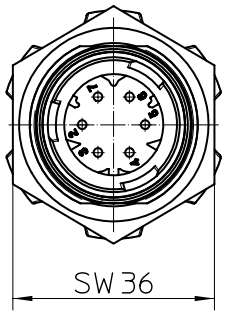


CONNECTORS

Product Sample ES-2012-T111



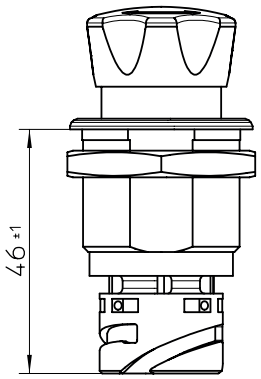
Product Sample ES-2012-T112



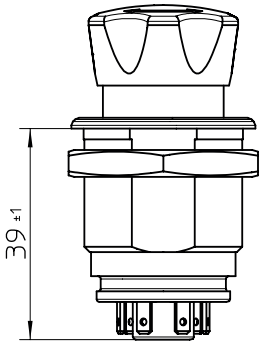
CONNECTORS

Bayonet Connection

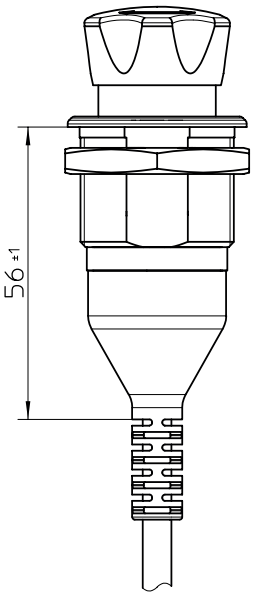
DIN 72585/ISO 15170



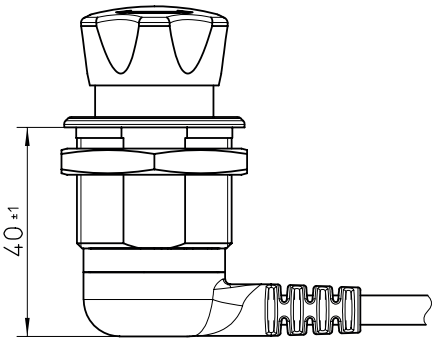
FASTON Connection



Cable Connection Axial



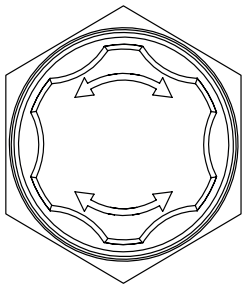
Cable Connection Laterally



ACTUATOR SYMBOLS

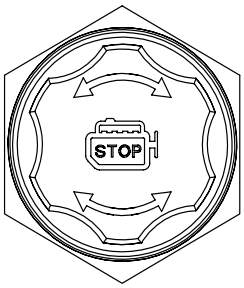
Arrow

T



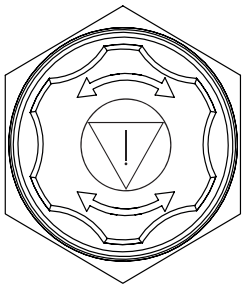
Motor

A



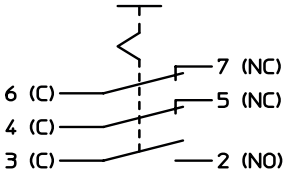
Safety

S

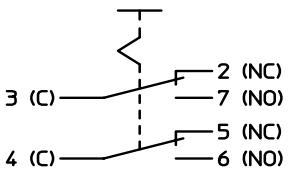


CIRCUITS

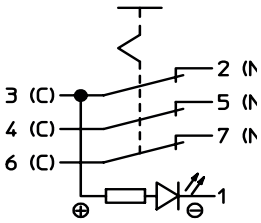
2 NC/1 NO



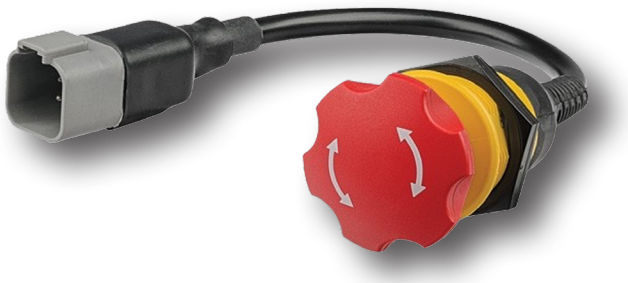
2 NO/NC Change-Over



3 NC Backlit



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

Switching Function

0-2	Number of NO/NC Contacts (3 pins)
0-3	Number of NO Contacts (2 pins)
0-3	Number of NC Contacts (2 pins)

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

Cable Length (in cm)

–––	On Request

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