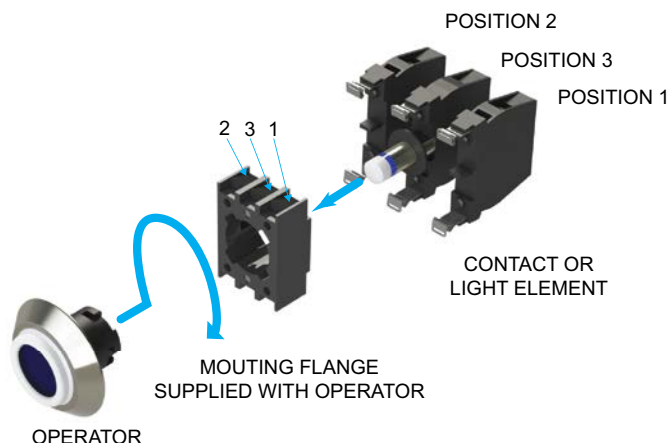# SCHMERSAL Control and Signaling Devices 22mm IP69K

Schmersal control and signaling devices have a number of special design features that make the devices suitable for food processing, pharmaceutical, and medical applications. When utilized in food processing machines, these devices comply with the special cleaning requirements of the industry to prevent cross-contamination, particularly when used in machines that process raw goods. With an ingress protection rating of IP69K, Schmersal control and signaling devices are also suitable for marine applications, traffic systems, commercial vehicles, and in dusty and dirty environments.

Features

• Special seals prevent product residue from penetrating in the gaps between the fixed and moving device parts, thus preventing the collection of dirt and bacteria in places that are not easily accessible for cleaning.

• Smooth designs make the devices easy to clean.

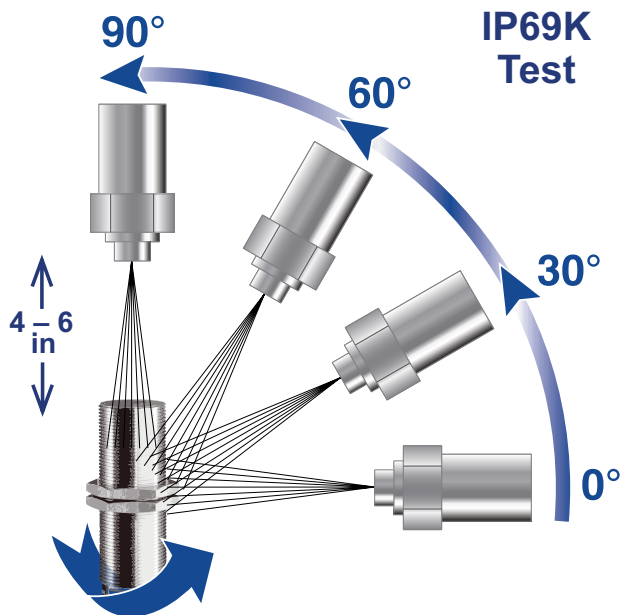• Modular contact and light terminal blocks make the devices easy to install.

POSITION 2
POSITION 3
POSITION 1
2 3 1
CONTACT OR LIGHT ELEMENT
MOUTING FLANGE SUPPLIED WITH OPERATOR
OPERATOR

IP69K Ingress Protection Rating Overview

IP69K high-pressure cleaning test
This rating applies to devices tested in accordance with DIN 40050-9. The goal of this test is to duplicate pressure cleaning conditions on a plant floor. In the test fixture, the devices are exposed to a 1450psi spray of water at a temperature of 175°F. The duration of each cleaning cycle is 30 seconds. The test is performed at specified angles using a spray nozzle located at a distance of 4" from the devices. Devices with this rating must withstand test conditions and still be operable. This rating ensures water proofing protection that exceeds NEMA 4X rating.
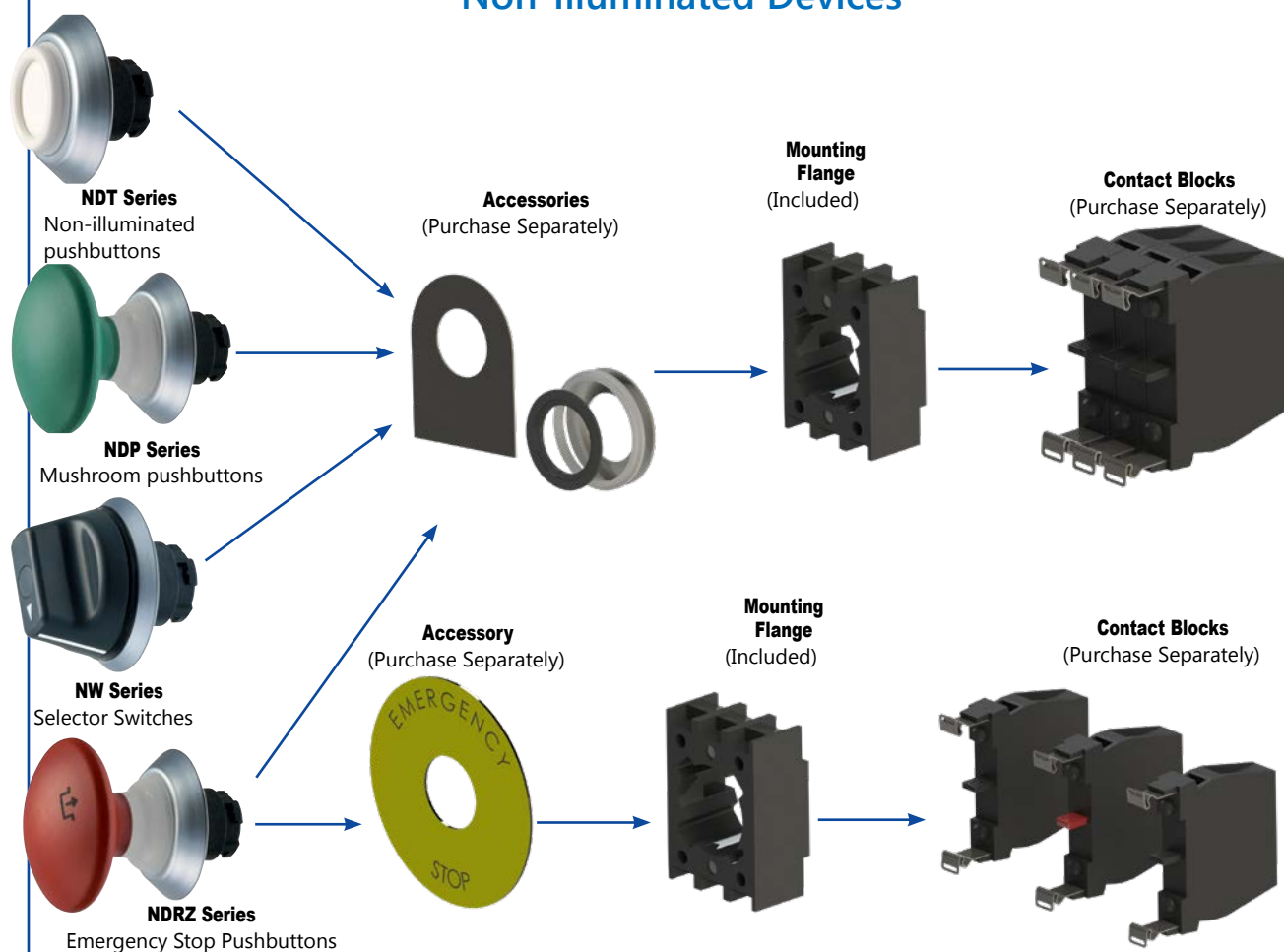
Thermal endurance
In pressure environments, controls and signaling devices can be exposed to extreme temperature conditions. To meet the criteria for IP69K rating, devices must undergo a thermal shock test by cycling the environmental temperature to ensure consistent high reliability.

90°
60°
30°
0°
IP69K Test
4 – 6 in

SCHMERSAL Modular Design Flexibility

Non-Illuminated Devices

NDT Series
Non-illuminated pushbuttons

NDP Series
Mushroom pushbuttons

NW Series
Selector Switches

NDRZ Series
Emergency Stop Pushbuttons

Accessories
(Purchase Separately)

Mounting Flange
(Included)

Contact Blocks
(Purchase Separately)

Accessory
(Purchase Separately)

Mounting Flange
(Included)

Contact Blocks
(Purchase Separately)

EMERGENCY STOP

Illuminated Devices

NDL Series
Illuminated Pushbuttons

NML Series
Indicator Lights

Accessories
(Purchase Separately)

Mounting Flange
(Included)

Contacts and Light Terminal Blocks
(Purchase Separately)