



Description

The DS is a customisable, metal-housed control unit that combines multiple machine control and safety functions in a compact, pre-wired assembly.

Its modular design allows configurations to be tailored to application requirements, with pilot device options including push buttons, selector switches, indicator lamps, and emergency stops, all connected via selectable M12 or M23 connectors.

The range is also available with an integrated safety guard interlock and operating handles for both hinged and sliding guards.

The enclosure includes integrated fixing points for installation on aluminium profiles, flat surfaces, doors, or panel rears without additional mounting hardware.

Rated to IP65 as standard, the DS Range is designed to support applicable machinery safety requirements while reducing installation and system design effort.

Part Number Breakdown

Example:

4750	03	-M1212P	-CC	-EL-BL-BL
XXXX	XX	-XXXXXX	-XX	-XX-XX-XX
I	II	III	IV	V

I	Base part number	4750 DS 4743 DS with MLZ-M
II	No. of devices	01, 02, ..., 10
III	Connector	M125P, M128P, M1212P M2312P, M2319P
IV	Wiring configuration	CC, CI, IC, II C - Common wiring I - Individual wiring
V	Device types	E - Emergency stop / EL - Illuminated B - Push button / BL - Illuminated S - Selector switch / SL - Illuminated L - Lamp

Technical Specifications

General Data

Operating temperature	-25 °C to +55 °C
Storage temperature	-40 °C to +80 °C
Housing material	Die cast metal
Housing IP rating	IP 65
Mechanical fixing screws	M5
Mechanical fixing torque	4 Nm

E-Stop

Contact type	2 NC (positive opening contact acc. to EN60947-5-1)
Standards	EN 60947-5-1 EN 60947-5-5 EN ISO 13850
B10d	250,000
Mechanical life	50,000 operating cycles
Operating voltage	24 V DC
Maximum current	0.1 A

Push Button / Selector Switch

Contact type	1 NO
Switching function (Push button)	Momentary
Switching function (Selector switch)	-45° (open) to 45° (closed - maintained)
Mechanical life	1,000,000 operating cycles
Operating voltage	24 V DC
Maximum current	0.1 A

Lamp / Device Illumination

Operating voltage	24 V DC (+10% / -15%)
Operating current	14 mA (at 24 V DC)

Wiring Configurations

	C – Common wiring	I – Individual wiring
BUTTONS		
LAMPS		

