

Technical data sheet

E-STOP rope switch

Part no.: 50149995

ERS200-M0C1-M20-HLR

Contents

- Technical data
- Dimensioned drawings
- Electrical connection



For illustration purposes only



Technical data

Basic data

Series	ERS200
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Functions

Functions	Integration in control circuits up to category 4 in accordance with EN ISO 13849-1
	Position-independent E-STOP command input
	Reset function (reset button with indicator)
	Rope head with alignment indicator

Characteristic parameters

Mission time T_M	20 years, EN ISO 13849-1
$B10_d$	2,000,000 number of cycles

Electrical data

Usage category at DC 13	Ue / Ie: 24 V / 3 A, 125 V / 0.55 A, 250 V / 0.3 A, EN 60947-5-1
Usage category at AC 15	Ue / Ie: 250 V / 6 A, 400 V / 4 A, 500 V / 1 A, EN 60947-5-1
Contact allocation	1NC + 1NO
Contact opening	Force-fit
Short circuit protected	500 V, 10 A, type aM, IEC 60269-1

Performance data

Rated insulation voltage 500 V AC, 600 V DC

Conventional thermal current, max. 10 A

Connection

Number of connections	1 Piece(s)
Number of cable entries	1 Piece(s)

Connection 1

Function	Contact connection
Type of connection	Terminal
Type of terminal	Screw terminal
No. of pins	4 -pin

Cable properties

Connection cross sections 1 x 0.5 mm² to 2 x 2.5 mm², wire

Mechanical data

Dimension (W x H x L)	40 mm x 49.5 mm x 138.5 mm
Housing material	Metal
Electrical contact material	Silver alloy
Net weight	384 g
Housing color	Gray
	Red
Type of fastening	Through-hole mounting
Type of cable entry	M20 x 1.5
Installation position	On rope pull axis
Switch type	E-Stop command device, EN ISO 13850
Switching principle	Slow-action contact
Mechanical life time	1,000,000 actuation cycles, IEC 60947-5-1
Actuation frequency, max.	600 per hour, IEC 60947-5-1
External actuator	Rope
Actuator, rope length, max. (at 20 °C temperature difference)	24 m
Extraction force, unlocked actuator	83 N
Actuation force (pull-out with forced separation)	90 N
Actuation force (slacken)	63 N
Actuation directions	On longitudinal axis
Actuating path with forced separation	8 mm
Type of actuation	Rope
Type of unlocking	Indicator button (pull)
Head material	Plastic

Environmental data

Ambient temperature, operation	-25 ... 80 °C
Degree of contamination	3, EN 60947-1

Certifications

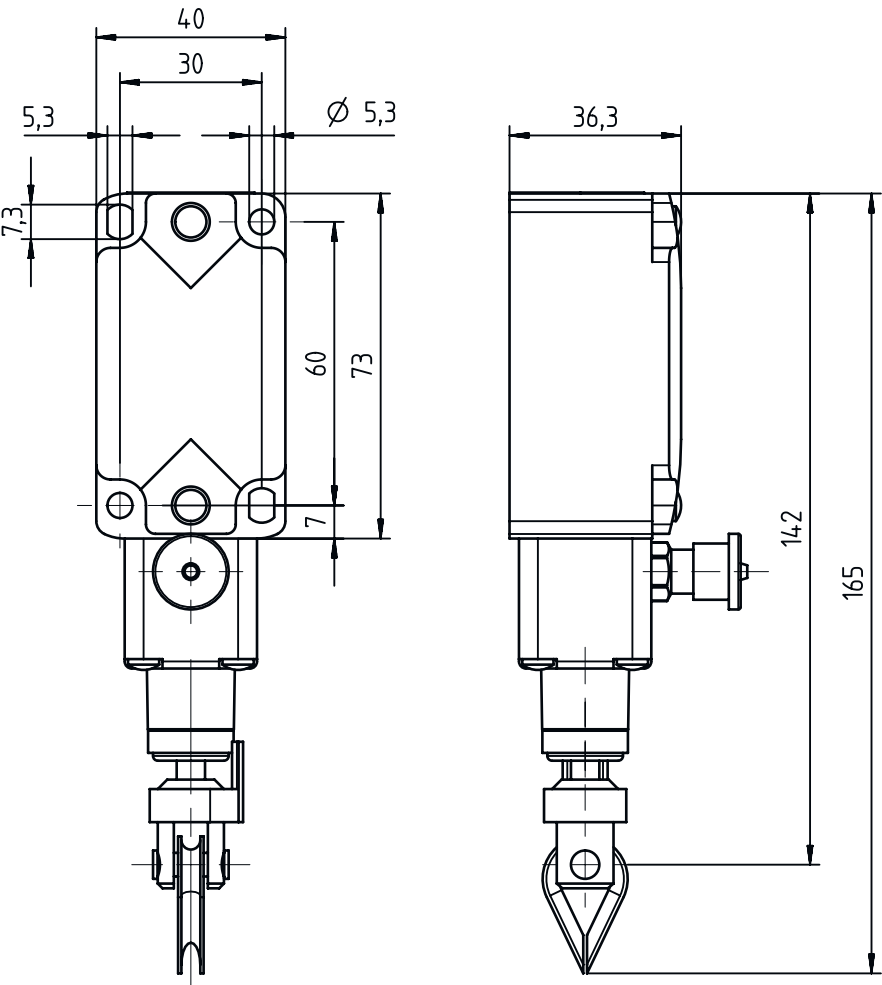
Degree of protection	IP 67
Approvals	c UL US
	IMQ

Classification

Customs tariff number	85369095
ECLASS 5.1.4	27270690
ECLASS 8.0	27270607
ECLASS 9.0	27371201
ECLASS 10.0	27371201
ECLASS 11.0	27371201
ECLASS 12.0	27371201
ECLASS 13.0	27371201
ECLASS 14.0	27371201
ECLASS 15.0	27371201
ECLASS 16.0	27371201
ETIM 5.0	EC002033
ETIM 6.0	EC002033
ETIM 7.0	EC002033
ETIM 8.0	EC002033
ETIM 9.0	EC002033
ETIM 10.0	EC002033

Dimensioned drawings

All dimensions in millimeters



Electrical connection

Connection 1

Function	Contact connection
Type of connection	Terminal
Type of terminal	Screw terminal
No. of pins	4 -pin

Terminal	Assignment
11	NC(1)
12	NC(1)
23	NO(1)
24	NO(1)