Remote Control System 07

General Product documentation

General Information

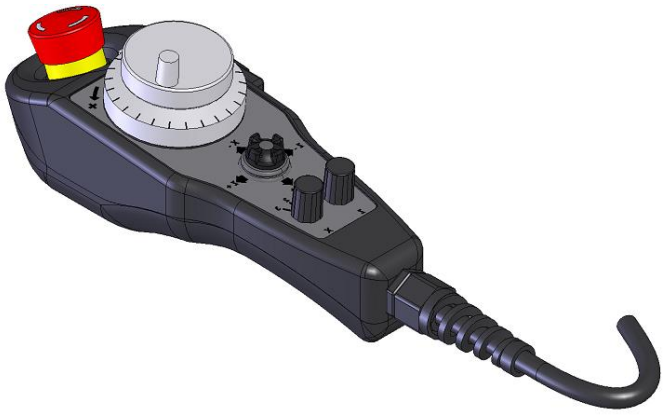
The RCS07 is a small and ergonomically designed handheld remote control unit qualified to set and control all kinds of machinery. It is widely used in robotics, machine tools and assembly lines

A great focus of the layout and design has been set to achieve an excellent ergonomic accessibility and haptic feedback of all controls. The RCS has been designed to interface with CNC controls. The modular design makes it easy to implement individual functions and requirements.

In addition to the selection of components with ergonomic layout and design *indEAS* offers the implementation of specific electrical interfaces. We are using standard field busses (e.g. Profibus-DP, CANOpen, ethernet etc.) as well as individual communication protocols based on RS485 or RS232.

Of course it is possible to implement and LCD.

Typical Application examples:



Specification of the standard control elements

Emergency Switch is needed to stop machinery in cases of emergency:

1. in a life-threatening situations
2. whenever there is a risk of damage of machinery, tools or workpieces
3. dual channel design according EN IEC 60947-5-5

Acceptance Switch The acceptance switch is designed as a three position key. Needs to be pressed to make movements possible according to ISO12100/EN292, EN60204-1, UL508, CSA C22.2 No.14

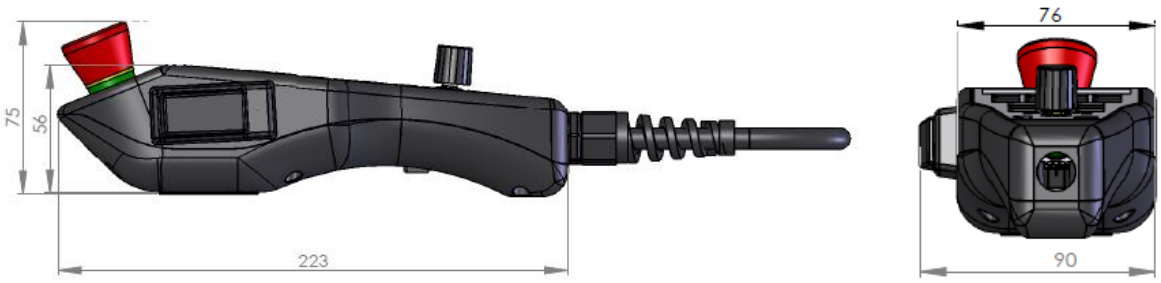
Control keys are used to initiate individual functions and procedures of the machine

Axis keys are used to move stepwise up or down the either in the X, Y or Z axis.

Handwheel is used to move selected axis.

The handwheel generates two gray-coded AB signals with 100 lines per revolution

Dimensions



Technical Data

Controls			
Acceptance switch	1 switch, volt free	2 toggle contacts	dual channel
Emergency switch	1 switch, volt free	2 normally closed contacts	dual channel
Axis key +	Negative direction of axis travel		
Axis key -	Positive direction of axis travel		
Functional keys	Up to 16 keys available for individual functions each with 2 LEDs		
Encoder / handwheel	standard handwheel with 100 detents and pitch option: encoder with up to 256 lines per revolution electrical interface: 5VDC or RS422 or fieldbus		
Electrical data			
Nominal voltage for standard signals	24 VDC keyboard		
Nominal voltage for handwheel	5 VDC		
Typical current consumption	approximately 100 mA @24V		
Encoder signals	RS 422, A/B TTL		
Emergency switch	24V	2A	Normally closed
Acceptance switch	24V	1A	Normally opened
General data			
Enclosure	Ergonomically ABS enclosure, optimized layout for all control elements with excellent haptic feedback		
Mounting	1 holding magnet with 70N holding force		
Connector cable	PUR cable (shielded) according to customers need (coiled cord available)		
CE– Konformität	Yes		
Mechanical data			
Dimensions	Height	Wide	Depth
	225 mm	76 mm	57 mm
Weight	approximately 0,5 kg without connector cable		
Umgebungsbedingungen			
Temperature range	Operation	Storage / transport	
	0 ... 70°C non-condensing	–20 ... 110°C	
Protection class	IP 54 standard IP67 as option		