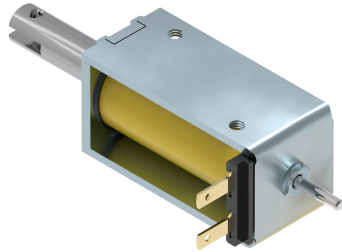
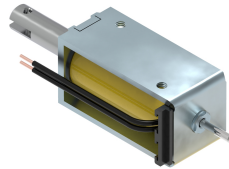


### ER 21/C TYPE



Cables version:  
● ER21/CC



s = 1x0.22mm<sup>2</sup>  
L = 250mm

Protection rate: **IP00**  
Insulation class: **B (130°C)**  
Reference cycle: **2 minutes**  
Standard stroke (s): **10 mm**  
Temperature rise "ΔV<sub>31</sub>": **70°C**  
Working temperature: **-10 to 45°C**  
Work: **Push / Pull**

Release spring will be incorporated by defect

Standard spring force:  
Fs(s=0mm) = 0.4N  
Fs(s=10mm) = 0.2N

(ED) Duty-cycle ED(%)	100	40	25	15	5
(P20) Power at 20°C (W)	6	14	24	35	100
(Fm) Solenoid force (N) 1)	1.3	2.3	3.1	4.1	6.2
Max time under voltage(s)	Inf	48	30	18	6
Opening time (ms) 2)	47	39	39	36	36
Release time (ms) 3)	35	31	31	29	29
Plunger weight (Kg)	0.012				
Solenoid weight (Kg)	0.062				

1) Fm Solenoid force is given according to VDE0580 without deducting the spring force or the plunger weight if vertical mounting.

2) Time is given on these conditions: Coil supplied under nominal voltage ; Stabilized in its working temperature ; Load 70% of the solenoid force ; Horizontal assembly ; Standard stroke initial position ; 20°C ambient temperature.

3) Time is given on these conditions: Standard spring ; without load on shaft ; Horizontal assembly ; Standard stroke initial position.

Duty-cycle ED%	Standard voltages										Under demand			
	VDC								VAC		VDC		VAC	
	6	12	24	48	100	125	205	110	230		Min	Max	Min	Max
100	o	o	o	o	o	x	x	x	x		3	110	x	x
40	o	o	o	o	o	o	x	x	x		4	165	x	x
25	o	o	o	o	o	o	o	x	x		5	220	x	x
15	o	o	o	o	o	o	o	x	x		6	230	x	x
5	x	o	o	o	o	o	o	x	x		9	230	x	x

Layout: o = Available ; x = Unavailable

- Voltage under demand:  
They can be manufactured at voltages between the maximum and minimum voltage values shown in the chart.

- The duty cycles described in the chart are standard, they can be manufactured in any intermediate value.

- If any customization from the original is needed, please ask us.

- Earthing is recommended if the metallic parts are accessible.

Ordering code: ER21/C --V ED---% - Mounting position - Spring



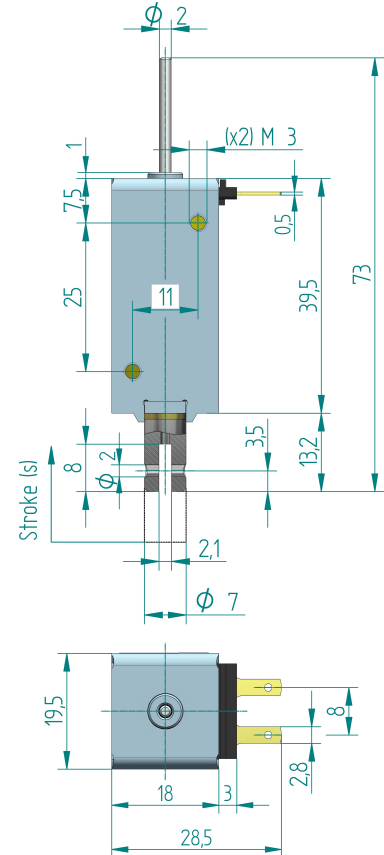
Voltage: 24Vdc; Duty cycle: ED100%; Position A; With spring:  
ER21/C 24Vdc ED100% A RS



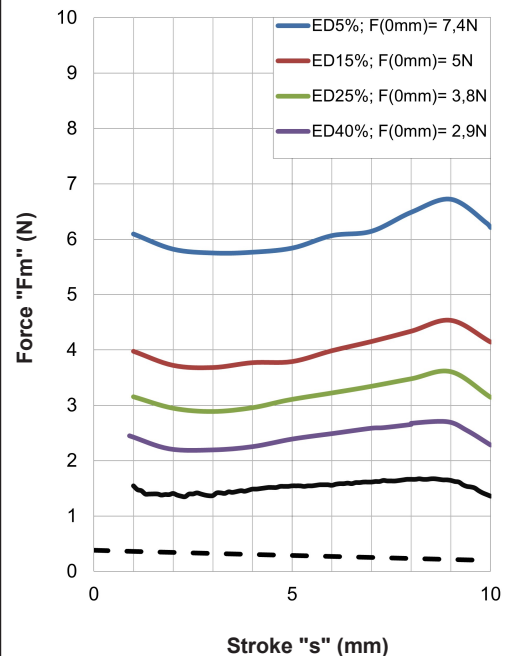
Voltage: 12Vdc; Duty cycle: ED15%; Position B; Without spring:  
ER21/C 12Vdc ED15% B RN

Spring yes: RS ; Spring no: RN

Solenoid under voltage (s=0mm position)



Force-stroke curve



Calculation of the effective force:  
see pages 1 and 10

For fixation and mounting positions: see page 10