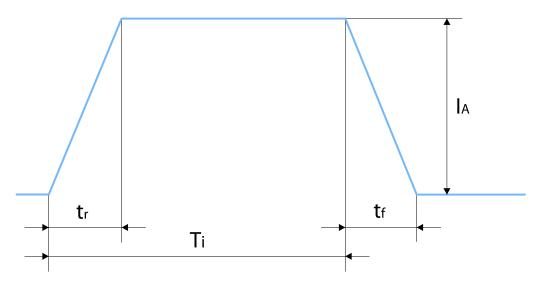
DATASHEET

Description

Electromagnetic display - flip disc - it is a passive technology, because it only needs a short current pulse to flip the disc. The disc remains in the set position without any other energy needed.

Operation Condition

Operation Temperature	-40°C to +80°C
Storing Temperature	-50°C to +85°C
Humidity	max. 95% for +40°C, non-condensing, air pressure min. 70kPa
Mounting	20° counter clockwise 10° clockwise from vertical position

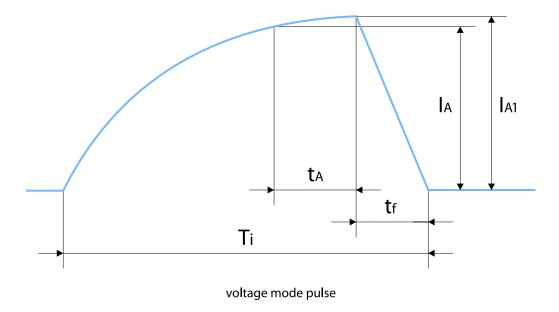


current mode pulse (recommended)

Current mode timing characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Тур	Max	Unit
Pulse duration	Ti		0.8		2	ms
Rise time	tr		0		0.4	ms
Fall time	tf		0		0.4	ms
Excitation current	IA		300		600	mA
Single disc recommended pulse		at Ti = 1ms		350 - 400		mA





Voltage mode timing characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Тур	Max	Unit
Pulse duration	Ti		0.8		2	ms
Time above min. excitation	tA	I > IA	0.2			ms
Fall time	tf		0		0.4	ms
Minimum excitation current	IA		300			mA
Maximum excitation current	I A1				800	mA

Winding characteristics

Characteristic	Symbol	Test Condition	Min	Тур	Max	Unit
Resistance (Note 1)	Rser	Ta=20°C	16.2	18	19.8	Ω
Temperature coefficient	TCR			0.004		deg
Inductance (Note 1)	Lser			6		mH
Power dissipation at low temp	Pw ₁	Ta <-40 to 20>°C			0.6	W
Power dissipation at high temp	P _{w2}	Ta = 80°C			0.3	W

(Note 1): Current timing model is given by serial combination of $\ensuremath{\mathsf{RSER}}$ and $\ensuremath{\mathsf{LSER}}.$



Flip disc characteristics

Characteristic	Symbol	Test Condition	Min	Тур	Max	Unit
Flip time	t FTS	I=350mA, Ti=1ms, current mode		100		ms
Mechanical endurance	t ftu			200x10 ⁶		cycles

