



eloProg - Controlador de segurança modular programável - Módulo de controle de rotação 485EPS

Os módulos de controle de rotação servem para monitoramento de velocidade zero, velocidade máxima, faixa de velocidade definida e o sentido de rotação. Até 4 limites de comutação podem ser configurados por eixo.

São compatíveis com sinais HTL, TTL ou seno / cosseno.

Especificação Técnica

- Módulos para a conexão de 1 ou 2 codificadores HTL, TTL ou seno / cosseno
- Entradas adicionais para até 2 sensores de proximidade por módulo
- 4 limites de comutação podem ser configurados por eixo
- Monitoramento da velocidade de rotação até PLe
- O conector T pré-montado (barramento de 5 vias) para conexão com o módulo básico e outros módulos de expansão simplifica a fiação e economiza espaço no painel de controle

Desenho técnico

IMAGE 1/1



Product options

IMAGE 1/1

ORDERING KEY

485EP	S		Module for rotational speed monitoring
		2N	Connection of 2 proximity sensors
		1T	Connection of 1 TTL encoder
		2T	Connection of 2 TTL encoders
		1H	Connection of 1 HTL encoder
		2H	Connection of 2 HTL encoders
		1S	Connection of 1 sin/cos encoder
		2S	Connection of 2 sin/cos encoders

Características do artigo

Attribute	485EPS1H	485EPS1S	485EPS1T	485EPS2H	485EPS2N	485EPS2S ▶
Operating voltage min.	19.2 V DC					
Operating voltage max.	28.8 V DC					
Power consumption	3 W					
LED display	No					
encoder interface	HTL	sin/cos	TTL	HTL	-	sin/cos
Encoder connections	RJ45				-	RJ45
Rated insulation voltage encoder	250 V				-	250 V
Overvoltage category encoder	II				-	II
Nominal pulse voltage encoder	4 kV				-	4 kV
Max. number of encoders	1			2	-	2
Max. frequency of encoder	300 kHz	500 kHz		300 kHz	-	500 kHz
Adjustable threshold range encoder	1 Hz - 450 kHz				-	1 Hz - 450 kHz
Initiators category	PNP/NPN - 3/4 Drähte					
Initiators connections	via connection terminals					
Adjustable threshold range initiators	1 Hz - 4 kHz					
Max. number of initiators	2					
Max. frequency of initiators	5 kHz					
Max. number of axes	2					
Standstill/overspeed gap	> 10 Hz					
Min. gap between thresholds	> 5 %					
PL acc. to EN ISO 13849-1	e					
SIL acc. to IEC 61508	3					
SIL CL acc. to IEC 62061	3					
PFHD according to IEC 61508	8,2 x 10-9 1/h	9,43 x 10-9 1/h	8,58 x 10-9 1/h	8,92 x 10-9 1/h	7,48 x 10-9 1/h	1,14 x 10-9 1/h
Operating life	20 Tm					
Category acc. to EN ISO 13849-1	4					
Dimensions	108 x 22,5 x 114,5 mm (H/B/T)				109 x 22,5 x 114,5 mm (H/B/T)	108 x 22,5 x 114,5 mm (H/B/T)

Attribute	485EPS1H	485EPS1S	485EPS1T	485EPS2H	485EPS2N	485EPS2S ▶
Housing material	PA					
Housing colour	Gehäuse schwarz Frontplatte gelb					
Protection class, housing	IP20 DIN EN 60529					
Operating temperature min.	-10 °C					
Max. operating temperature	55 °C					
Max. storage temperature	85 °C					
Relative humidity	10...95 %				10...96 %	10...95 %
Mounting type	Mounting rail					
Torque for connection terminals	0.6 N m					
Weight	150 g					
Connection to base module	proprietary 5-way bus (T-connector)					
Screw terminals	yes					
Pluggable connection terminals	yes					
Min. connection cross section	0.5 mm²					
Max. connection cross section	2.5 mm²					
Certified in accordance with	EN ISO 13849-1 IEC 61508 IEC 62061 UL 508 / CSA 22.2					
CE label	yes					

Attribute	485EPS2T	ED485EPS1H	ED485EPS1S	ED485EPS1T	ED485EPS2H	ED485EPS2N ▶
Operating voltage min.	19.2 V DC			-		
Operating voltage max.	28.8 V DC			-		
Power consumption	3 W			-		
LED display	No			-		
encoder interface	TTL			-		
Encoder connections	RJ45			-		
Rated insulation voltage encoder	250 V			-		
Overvoltage category encoder	II			-		
Nominal pulse voltage encoder	4 kV			-		
Max. number of encoders	2			-		
Max. frequency of encoder	500 kHz			-		
Adjustable threshold range encoder	1 Hz - 450 kHz			-		
Initiators category	PNP/NPN - 3/4 Drähte			-		
Initiators connections	via connection terminals			-		
Adjustable threshold range initiators	1 Hz - 4 kHz			-		
Max. number of initiators	2			-		
Max. frequency of initiators	5 kHz			-		
Max. number of axes	2			-		
Standstill/overspeed gap	> 10 Hz			-		
Min. gap between thresholds	> 5 %			-		
PL acc. to EN ISO 13849-1	e			-		
SIL acc. to IEC 61508	3			-		
SIL CL acc. to IEC 62061	3			-		
PFHD according to IEC 61508	9,68 x 10 ⁻⁹ 1/h			-		
Operating life	20 Tm			-		
Category acc. to EN ISO 13849-1	4			-		
Dimensions	108 x 22,5 x 114,5 mm (H/B/T)			-		

Attribute	485EPS2T	ED485EPS1H	ED485EPS1S	ED485EPS1T	ED485EPS2H	ED485EPS2N ▶
Housing material	PA			-		
Housing colour	Gehäuse schwarz Frontplatte gelb			-		
Protection class, housing	IP20 DIN EN 60529			-		
Operating temperature min.	-10 °C			-		
Max. operating temperature	55 °C			-		
Max. storage temperature	85 °C			-		
Relative humidity	10...95 %			-		
Mounting type	Mounting rail			-		
Torque for connection terminals	0.6 N m			-		
Weight	150 g			-		
Connection to base module	proprietary 5- way bus (T- connector)			-		
Screw terminals	yes			-		
Pluggable connection terminals	yes			-		
Min. connection cross section	0.5 mm²			-		
Max. connection cross section	2.5 mm²			-		
Certified in accordance with	EN ISO 13849-1 IEC 61508 IEC 62061 UL 508 / CSA 22.2			-		
CE label	yes			-		

Attribute	ED485EPS2S	ED485EPS2T
Operating voltage min.	-	-
Operating voltage max.	-	-
Power consumption	-	-
LED display	-	-
encoder interface	-	-
Encoder connections	-	-
Rated insulation voltage encoder	-	-
Overvoltage category encoder	-	-
Nominal pulse voltage encoder	-	-
Max. number of encoders	-	-
Max. frequency of encoder	-	-
Adjustable threshold range encoder	-	-
Initiators category	-	-
Initiators connections	-	-
Adjustable threshold range initiators	-	-
Max. number of initiators	-	-
Max. frequency of initiators	-	-
Max. number of axes	-	-
Standstill/overspeed gap	-	-
Min. gap between thresholds	-	-
PL acc. to EN ISO 13849-1	-	-
SIL acc. to IEC 61508	-	-
SIL CL acc. to IEC 62061	-	-
PFHD according to IEC 61508	-	-
Operating life	-	-
Category acc. to EN ISO 13849-1	-	-
Dimensions	-	-
Housing material	-	-
Housing colour	-	-
Protection class, housing	-	-

Attribute	ED485EPS2S	ED485EPS2T
Operating temperature min.	-	-
Max. operating temperature	-	-
Max. storage temperature	-	-
Relative humidity	-	-
Mounting type	-	-
Torque for connection terminals	-	-
Weight	-	-
Connection to base module	-	-
Screw terminals	-	-
Pluggable connection terminals	-	-
Min. connection cross section	-	-
Max. connection cross section	-	-
Certified in accordance with	-	-
CE label	-	-