



- ◆ frequency input for dry contacts or proximity switches
- ◆ short and break detection
- ◆ electrical isolation, input to bus and input to power
- ◆ frequency measurement or counting applications
- ◆ two function blocks
- ◆ reset via Fieldbus or control input
- ◆ status outputs / direction recognition

MODULE SPECIFICATION

See also System Specification

INPUT

No-load voltage	.....8 V DC
Short-circuit current	.....3 to 4 mA
Switching point in range	.....1.4 to 1.8 mA
Switching hysteresis	.....0.2 mA
Short-circuit detection	.....< 367 ohm
Line-break detection	.....< 0.2 mA
Input frequency	.....4 kHz
	.....1.25 kHz with direction recognition
Counter	.....30 bit (29 bit and digit sign)

EXPLOSION PROTECTION

Certificate number	.....PTB01ATEX2139
Max. short-circuit current	.....$I_0 = 44$ mA
Voltage	.....$U_0 = 9.6$ V
Performance	.....$P_0 = 106$ mW
External inductance	.....$L_0 = 1$ mH
External capacitance	.....$C_0 = 1100$ nF

DIAGNOSTIC INFORMATION

System / Module power on	.....LED green / red
Open (off) / Closed (on)	.....LED 1 to 8, off / yellow
Line break or short circuit	.....LED 1 to 8, red
Via fieldbus	
line-break or short-circuit	.....per channel
Over/under-range	.....per channel
Simulation	.....per channel
Communication, hardware	.....for each I/O module

CHARACTERISTICS AT RATED CONDITIONS

De-bounce filter	.....0 to 100 ms
Total power consumption	.....< 1.1W
Accuracy for frequency measurement	.....0.1% / 1%
	.....depending on time window

