



RDS 08/27/13

DATE

ECO NO.

DRAWING RELEASE

DESCRIPTION

RATED OPERATING DISTANCE MOUNTING MODE TEMPERATURE DRIFT FLUSH TEMPERATURE DRIFT HYSTERESIS MIN. REPEAT ACCURACY OPERATING TEMPERATURE RATED OPERATIONAL VOLTAGE RATED OPERATIONAL VOLTAGE RATED OPERATIONAL CURRENT RATED OPERATIONAL CURRENT SOON MA NO-LOAD CURRENT RESIDUAL CURRENT RATED INSULATION VOLTAGE MAX. VOLTAGE DROP MAX. VOLTAGE DROP SHORT—CIRCUIT PROTECTION REVERSE POLARITY PROTECTION MAX. SWITCHING FREQUENCY HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE PLASTIC, PA12—GF30 CABLE Ø5.2, PVC VIBRATION STATUS INDICATION IP 67 SWITCHING STATUS INDICATION LED, YELLOW	SPECIFICATIONS		
TEMPERATURE DRIFT HYSTERESIS 3-15% MIN. REPEAT ACCURACY ○PERATING TEMPERATURE -25°C to +70°C (-13°F to +158°F) RATED OPERATIONAL VOLTAGE RESIDUAL RIPPLE ≤10% RATED OPERATIONAL CURRENT NO-LOAD CURRENT S15 mA RESIDUAL CURRENT ≪15 mA RATED INSULATION VOLTAGE S40.5 kV SHORT-CIRCUIT PROTECTION WIRE BREAKAGE PROTECTION REVERSE POLARITY PROTECTION MAX. VOLTAGE DROP ✓1.8 V WIRE BREAKAGE PROTECTION REVERSE POLARITY PROTECTION MAX. SWITCHING FREQUENCY HOUSING MATERIAL ACTIVE FACE PLASTIC, PA12-GF30 CABLE Ø5.2, PVC VIBRATION RESISTANCE 50 g, 11 ms DEGREE OF PROTECTION IP 67	RATED OPERATING DISTANCE	4mm [.158]	
HYSTERESIS 3-15% MIN. REPEAT ACCURACY ○PERATING TEMPERATURE -25°C to +70°C (-13°F to +158°F) RATED OPERATIONAL VOLTAGE RESIDUAL RIPPLE ≤10% RATED OPERATIONAL CURRENT ○200 mA NO-LOAD CURRENT □50.1 mA RESIDUAL CURRENT □60.5 kV SHORT-CIRCUIT PROTECTION MAX. VOLTAGE DROP □61.8 V WIRE BREAKAGE PROTECTION REVERSE POLARITY PROTECTION MAX. SWITCHING FREQUENCY HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE □63.2 PVC VIBRATION RESISTANCE SHOCK RESISTANCE DEGREE OF PROTECTION IP 67	MOUNTING MODE	FLUSH	
MIN. REPEAT ACCURACY ≤ 2% OPERATING TEMPERATURE −25°C to +70°C (−13°F to +158°F) RATED OPERATIONAL VOLTAGE 10−30 VDC RESIDUAL RIPPLE ≤ 10% RATED OPERATIONAL CURRENT ≤ 200 mA NO−LOAD CURRENT ≤ 15 mA RESIDUAL CURRENT ≤ 0.1 mA RATED INSULATION VOLTAGE ≤ 0.5 kV SHORT-CIRCUIT PROTECTION YES MAX. VOLTAGE DROP ≤ 1.8 V WIRE BREAKAGE PROTECTION INCORPORATED OUTPUT FUNCTION 3−WIRE, NORMALLY CLOSED, PNP MAX. SWITCHING FREQUENCY ≤ 2 kHz HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE PLASTIC, PA12-GF30 CABLE Ø5.2, PVC VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	TEMPERATURE DRIFT	≤±10%	
OPERATING TEMPERATURE -25°C to +70°C (-13°F to +158°F) RATED OPERATIONAL VOLTAGE RESIDUAL RIPPLE ≤ 10% RATED OPERATIONAL CURRENT NO-LOAD CURRENT ≤ 15 mA RESIDUAL CURRENT ≤ 0.1 mA RATED INSULATION VOLTAGE SHORT-CIRCUIT PROTECTION WIRE BREAKAGE PROTECTION REVERSE POLARITY PROTECTION INCORPORATED OUTPUT FUNCTION MAX. SWITCHING FREQUENCY HOUSING MATERIAL ACTIVE FACE CABLE Ø5.2, PVC VIBRATION RESISTANCE SHOCK RESISTANCE JOWN 10-30 VDC 10	HYSTERESIS	3-15%	
RATED OPERATIONAL VOLTAGE RESIDUAL RIPPLE \$ 10% RATED OPERATIONAL CURRENT \$ 200 mA NO-LOAD CURRENT \$ 15 mA RESIDUAL CURRENT \$ 0.1 mA RATED INSULATION VOLTAGE \$ 40.5 kV SHORT-CIRCUIT PROTECTION MAX. VOLTAGE DROP \$ 1.8 V WIRE BREAKAGE PROTECTION REVERSE POLARITY PROTECTION INCORPORATED OUTPUT FUNCTION 3-WIRE, NORMALLY CLOSED, PNP MAX. SWITCHING FREQUENCY \$ 2 kHz HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE CABLE \$ 5.2, PVC VIBRATION RESISTANCE \$ 30 g, 11 ms DEGREE OF PROTECTION 10-30 VDC \$ 200 mA 10-30 VDC # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10% # 10%	MIN. REPEAT ACCURACY	≤ 2%	
RESIDUAL RIPPLE RATED OPERATIONAL CURRENT S = 200 mA NO—LOAD CURRENT RESIDUAL CURRENT RESIDUAL CURRENT S = 0.1 mA RATED INSULATION VOLTAGE SHORT—CIRCUIT PROTECTION MAX. VOLTAGE DROP S = 1.8 V WIRE BREAKAGE PROTECTION REVERSE POLARITY PROTECTION INCORPORATED OUTPUT FUNCTION MAX. SWITCHING FREQUENCY HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE CABLE Ø5.2, PVC VIBRATION RESISTANCE SHOCK RESISTANCE DEGREE OF PROTECTION S = 10% ACTIVE FACE PLASTIC, PA12—GF30 S = 10 M ALL 3 PLANES) D = 10 M ALL 3 PLANES	OPERATING TEMPERATURE	-25°C to +70°C (-13°F to +158°F)	
RATED OPERATIONAL CURRENT S 200 mA NO-LOAD CURRENT RESIDUAL CURRENT RATED INSULATION VOLTAGE SHORT-CIRCUIT PROTECTION WIRE BREAKAGE PROTECTION REVERSE POLARITY PROTECTION MAX. VOLTAGE OUTPUT FUNCTION MAX. SWITCHING FREQUENCY HOUSING MATERIAL ACTIVE FACE CABLE VERNAME VIENDAM S 200 mA S 15 mA S 16 mA S 15 mA S 16 mA S 17 mA S 18 mA S 20 mA MAX. SUITCHING FREQUENCY S 2 kHz HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE PLASTIC, PA12-GF30 CABLE V5.2, PVC VIBRATION RESISTANCE S 5 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE S 10 m 3 m 3 m 3 m 3 m 3 m 3 m 3 m 3 m 3 m	RATED OPERATIONAL VOLTAGE	10-30 VDC	
NO-LOAD CURRENT ≤ 15 mA RESIDUAL CURRENT ≤ 0.1 mA RATED INSULATION VOLTAGE ≤ 0.5 kV SHORT-CIRCUIT PROTECTION YES MAX. VOLTAGE DROP ≤ 1.8 V WIRE BREAKAGE PROTECTION INCORPORATED REVERSE POLARITY PROTECTION INCORPORATED OUTPUT FUNCTION 3-WIRE, NORMALLY CLOSED, PNP MAX. SWITCHING FREQUENCY ≤ 2 kHz HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE PLASTIC, PA12-GF30 CABLE Ø5.2, PVC VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	RESIDUAL RIPPLE	≤ 10%	
RESIDUAL CURRENT RATED INSULATION VOLTAGE SHORT—CIRCUIT PROTECTION MAX. VOLTAGE DROP ✓ 1.8 V WIRE BREAKAGE PROTECTION REVERSE POLARITY PROTECTION OUTPUT FUNCTION MAX. SWITCHING FREQUENCY HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE CABLE V5.2, PVC VIBRATION RESISTANCE SHOCK RESISTANCE DEGREE OF PROTECTION YES ✓ 1.8 V INCORPORATED INCORPORATED INCORPORATED ACROME PLATED PLASTIC, PA12—GF30 STORY STORY STORY STORY STORY STORY YIS AND YES 1.8 V INCORPORATED INCORPORATED INCORPORATED INCORPORATED INCORPORATED SHOULD STORY SHOULD STORY	RATED OPERATIONAL CURRENT	≤ 200 mA	
RATED INSULATION VOLTAGE SHORT—CIRCUIT PROTECTION YES MAX. VOLTAGE DROP ≤ 1.8 V WIRE BREAKAGE PROTECTION REVERSE POLARITY PROTECTION OUTPUT FUNCTION MAX. SWITCHING FREQUENCY HOUSING MATERIAL ACTIVE FACE CABLE VBRATION RESISTANCE SHOCK RESISTANCE	NO-LOAD CURRENT	≤ 15 mA	
SHORT—CIRCUIT PROTECTION MAX. VOLTAGE DROP ≤ 1.8 V WIRE BREAKAGE PROTECTION REVERSE POLARITY PROTECTION OUTPUT FUNCTION MAX. SWITCHING FREQUENCY HOUSING MATERIAL ACTIVE FACE VIBRATION RESISTANCE SHOCK RESISTANCE DEGREE OF PROTECTION S = 1.8 V INCORPORATED INCORPORATED S—WIRE, NORMALLY CLOSED, PNP ≤ 2 kHz BRASS, CHROME PLATED PLASTIC, PA12—GF30 S5.2, PVC VIBRATION RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	RESIDUAL CURRENT	≤ 0.1 mA	
MAX. VOLTAGE DROP ≤ 1.8 V WIRE BREAKAGE PROTECTION INCORPORATED REVERSE POLARITY PROTECTION INCORPORATED OUTPUT FUNCTION 3—WIRE, NORMALLY CLOSED, PNP MAX. SWITCHING FREQUENCY ≤ 2 kHz HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE PLASTIC, PA12—GF30 CABLE Ø5.2, PVC VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	RATED INSULATION VOLTAGE	≤ 0.5 kV	
WIRE BREAKAGE PROTECTION INCORPORATED REVERSE POLARITY PROTECTION INCORPORATED OUTPUT FUNCTION 3-WIRE, NORMALLY CLOSED, PNP MAX. SWITCHING FREQUENCY ≤ 2 kHz HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE PLASTIC, PA12-GF30 CABLE Ø5.2, PVC VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	SHORT-CIRCUIT PROTECTION	YES	
REVERSE POLARITY PROTECTION INCORPORATED OUTPUT FUNCTION 3-WIRE, NORMALLY CLOSED, PNP MAX. SWITCHING FREQUENCY ≤ 2 kHz HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE PLASTIC, PA12-GF30 CABLE Ø5.2, PVC VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	MAX. VOLTAGE DROP	≤ 1.8 V	
OUTPUT FUNCTION 3—WIRE, NORMALLY CLOSED, PNP MAX. SWITCHING FREQUENCY ≤ 2 kHz HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE PLASTIC, PA12—GF30 CABLE Ø5.2, PVC VIBRATION RESISTANCE SHOCK RESISTANCE DEGREE OF PROTECTION J P 67	WIRE BREAKAGE PROTECTION	INCORPORATED	
MAX. SWITCHING FREQUENCY ≤ 2 kHz HOUSING MATERIAL BRASS, CHROME PLATED ACTIVE FACE PLASTIC, PA12—GF30 CABLE Ø5.2, PVC VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	REVERSE POLARITY PROTECTION	INCORPORATED	
HOUSING MATERIAL ACTIVE FACE PLASTIC, PA12-GF30 CABLE Ø5.2, PVC VIBRATION RESISTANCE SHOCK RESISTANCE DEGREE OF PROTECTION PRASS, CHROME PLATED Ø5.2, PVC VIBRATION ALL 3 PLANES) 30 g, 11 ms	OUTPUT FUNCTION	3-WIRE, NORMALLY CLOSED, PNP	
ACTIVE FACE PLASTIC, PA12-GF30 CABLE Ø5.2, PVC VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	MAX. SWITCHING FREQUENCY	≤2 kHz	
CABLE Ø5.2, PVC VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	HOUSING MATERIAL	BRASS, CHROME PLATED	
VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	ACTIVE FACE	PLASTIC, PA12-GF30	
SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	CABLE	ø5.2, PVC	
DEGREE OF PROTECTION IP 67	VIBRATION RESISTANCE	55 Hz (IN ALL 3 PLANES)	
	SHOCK RESISTANCE	30 g, 11 ms	
SWITCHING STATUS INDICATION LED, YELLOW	DEGREE OF PROTECTION	IP 67	
	SWITCHING STATUS INDICATION	LED, YELLOW	

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