



RATED OPERATING DISTANCE 2 mm [.079"] MOUNTING MODE FLUSH TEMPERATURE DRIFT ≤ ±10% HYSTERESIS 3-15% MIN. REPEAT ACCURACY ≤2% OPERATING TEMPERATURE -25°C to +85°C (-13°F to +185°F) RATED OPERATIONAL VOLTAGE 10-30 VDC RESIDUAL RIPPLE ≤10% DC RATED OPERATIONAL CURRENT ≤150 mA NO-LOAD CURRENT ≤15 mA RESIDUAL CURRENT ≤0.1 mA RATED INSULATION VOLTAGE ≤0.5 kV SHORT-CIRCUIT PROTECTED YES MAX. VOLTAGE DROP ≤1.8 V SWITCHING FREQUENCY ≤2.0 kHz WIRE-BREAK PROTECTION INCORPORATED OUTPUT FUNCTION 3-WIRE, NORMALLY CLOSED, PNP HOUSING MATERIAL/COLOR PLASTIC, PP/YELLOW ACTIVE FACE PLASTIC, PA12-GF20 CABLE Ø3.0, TPU VIBRATION RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67 SWITCHING STATUS INDICATION LED, YELLOW	SPECIFICATIONS							
TEMPERATURE DRIFT ≤ ±10% HYSTERESIS 3-15% MIN. REPEAT ACCURACY ≤2% OPERATING TEMPERATURE -25°C to +85°C (-13°F to +185°F) RATED OPERATIONAL VOLTAGE 10-30 VDC RESIDUAL RIPPLE ≤10% DC RATED OPERATIONAL CURRENT ≤150 mA NO-LOAD CURRENT ≤15 mA RESIDUAL CURRENT ≤0.1 mA RATED INSULATION VOLTAGE ≤0.5 kV SHORT-CIRCUIT PROTECTED YES MAX. VOLTAGE DROP ≤1.8 V SWITCHING FREQUENCY ≤2.0 kHz WIRE-BREAK PROTECTION INCORPORATED REVERSE POLARITY PROTECTION INCORPORATED OUTPUT FUNCTION 3-WIRE, NORMALLY CLOSED, PNP HOUSING MATERIAL/COLOR PLASTIC, PP/YELLOW ACTIVE FACE PLASTIC, PA12-GF20 CABLE Ø3.0, TPU VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	RATED OPERATING DISTANCE	2 mm [.079"]						
HYSTERESIS MIN. REPEAT ACCURACY ≤2% OPERATING TEMPERATURE RATED OPERATIONAL VOLTAGE RESIDUAL RIPPLE DC RATED OPERATIONAL CURRENT NO-LOAD CURRENT RESIDUAL CURRENT RESIDUAL CURRENT SHORT—CIRCUIT PROTECTED MAX. VOLTAGE DROP SWITCHING FREQUENCY WIRE—BREAK PROTECTION REVERSE POLARITY PROTECTION HOUSING MATERIAL/COLOR ACTIVE FACE CABLE VIRE—BREAK PROTECTION VIRE—BREAK POLARITY PROTECTION ACTIVE FACE CABLE VIBRATION RESISTANCE SHOCK RESISTANCE JOHN ASSOCIATION JOHN ALL 3 PLANES) SHOCK RESISTANCE JOHN AND ASSOCIATION JOHN ALL 3 PLANES) SHOCK RESISTANCE JOHN AND ASSOCIATION JOHN ALL 3 PLANES) SHOCK RESISTANCE JOHN ALL 3 PLANES) JOHN ALL 3 PLANES	MOUNTING MODE	FLUSH						
MIN. REPEAT ACCURACY OPERATING TEMPERATURE -25°C to +85°C (−13°F to +185°F) RATED OPERATIONAL VOLTAGE RESIDUAL RIPPLE □ C RATED OPERATIONAL CURRENT NO−LOAD CURRENT RESIDUAL CURRENT RATED INSULATION VOLTAGE SHORT−CIRCUIT PROTECTED WIRE−BREAK PROTECTION REVERSE POLARITY PROTECTION HOUSING MATERIAL/COLOR ACTIVE FACE CABLE VES 22% 10−30 VDC 10−30	TEMPERATURE DRIFT	≤ ±10%						
OPERATING TEMPERATURE -25°C to +85°C (-13°F to +185°F) RATED OPERATIONAL VOLTAGE 10-30 VDC RESIDUAL RIPPLE ≤10% DC RATED OPERATIONAL CURRENT NO-LOAD CURRENT RESIDUAL CURRENT RATED INSULATION VOLTAGE ≤0.1 mA RATED INSULATION VOLTAGE ≤0.5 kV SHORT-CIRCUIT PROTECTED YES MAX. VOLTAGE DROP ≤1.8 V SWITCHING FREQUENCY ✓2.0 kHz WIRE-BREAK PROTECTION INCORPORATED REVERSE POLARITY PROTECTION OUTPUT FUNCTION 3-WIRE, NORMALLY CLOSED, PNP HOUSING MATERIAL/COLOR PLASTIC, PA12-GF20 CABLE ✓3.0, TPU VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	HYSTERESIS	3-15%						
RATED OPERATIONAL VOLTAGE RESIDUAL RIPPLE □ C RATED OPERATIONAL CURRENT NO-LOAD CURRENT RESIDUAL CURRENT RESIDUAL CURRENT RATED INSULATION VOLTAGE □ SHORT-CIRCUIT PROTECTED MAX. VOLTAGE DROP SWITCHING FREQUENCY WIRE-BREAK PROTECTION REVERSE POLARITY PROTECTION OUTPUT FUNCTION ACTIVE FACE CABLE VERVARD VIREA DROP SHORMALLY CLOSED, PNP PLASTIC, PA12-GF20 CABLE VIREATION RESISTANCE SHOCK RESISTANCE SHOCK RESISTANCE DEGREE OF PROTECTION INCORPORATED VIDENATION RESISTANCE SHOCK RESISTANCE SO MAX 10-30 VDC 10-	MIN. REPEAT ACCURACY	≤2%						
RESIDUAL RIPPLE ≤10% DC RATED OPERATIONAL CURRENT ≤150 mA NO-LOAD CURRENT ≤15 mA RESIDUAL CURRENT ≤0.1 mA RATED INSULATION VOLTAGE ≤0.5 kV SHORT-CIRCUIT PROTECTED YES MAX. VOLTAGE DROP ≤1.8 V SWITCHING FREQUENCY ≤2.0 kHz WIRE-BREAK PROTECTION INCORPORATED REVERSE POLARITY PROTECTION INCORPORATED OUTPUT FUNCTION 3-WIRE, NORMALLY CLOSED, PNP HOUSING MATERIAL/COLOR PLASTIC, PP/YELLOW ACTIVE FACE PLASTIC, PA12-GF20 CABLE Ø3.0, TPU VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	OPERATING TEMPERATURE	-25°C to +85°C (-13°F to +185°F)						
DC RATED OPERATIONAL CURRENT ≤150 mA NO-LOAD CURRENT ≤15 mA RESIDUAL CURRENT ≤ 0.1 mA RATED INSULATION VOLTAGE ≤ 0.5 kV SHORT-CIRCUIT PROTECTED YES MAX. VOLTAGE DROP ≤ 1.8 V SWITCHING FREQUENCY ≤ 2.0 kHz WIRE-BREAK PROTECTION INCORPORATED REVERSE POLARITY PROTECTION INCORPORATED OUTPUT FUNCTION 3-WIRE, NORMALLY CLOSED, PNP HOUSING MATERIAL/COLOR PLASTIC, PP/YELLOW ACTIVE FACE PLASTIC, PA12-GF20 CABLE Ø3.0, TPU VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	RATED OPERATIONAL VOLTAGE	10-30 VDC						
NO-LOAD CURRENT ≤15 mA RESIDUAL CURRENT ≤ 0.1 mA RATED INSULATION VOLTAGE ≤ 0.5 kV SHORT-CIRCUIT PROTECTED YES MAX. VOLTAGE DROP ≤ 1.8 V SWITCHING FREQUENCY ≤ 2.0 kHz WIRE-BREAK PROTECTION INCORPORATED REVERSE POLARITY PROTECTION INCORPORATED OUTPUT FUNCTION 3-WIRE, NORMALLY CLOSED, PNP HOUSING MATERIAL/COLOR PLASTIC, PP/YELLOW ACTIVE FACE PLASTIC, PA12-GF20 CABLE Ø3.0, TPU VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	RESIDUAL RIPPLE	≤10%						
RESIDUAL CURRENT ≤ 0.1 mA RATED INSULATION VOLTAGE ≤ 0.5 kV SHORT—CIRCUIT PROTECTED YES MAX. VOLTAGE DROP ≤ 1.8 V SWITCHING FREQUENCY ≤ 2.0 kHz WIRE—BREAK PROTECTION INCORPORATED REVERSE POLARITY PROTECTION INCORPORATED OUTPUT FUNCTION 3—WIRE, NORMALLY CLOSED, PNP HOUSING MATERIAL/COLOR PLASTIC, PP/YELLOW ACTIVE FACE PLASTIC, PA12—GF20 CABLE Ø3.0, TPU VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	DC RATED OPERATIONAL CURRENT	≤150 mA						
RATED INSULATION VOLTAGE ≤ 0.5 kV SHORT—CIRCUIT PROTECTED YES MAX. VOLTAGE DROP ≤ 1.8 V SWITCHING FREQUENCY ≤ 2.0 kHz WIRE—BREAK PROTECTION INCORPORATED REVERSE POLARITY PROTECTION INCORPORATED OUTPUT FUNCTION 3—WIRE, NORMALLY CLOSED, PNP HOUSING MATERIAL/COLOR PLASTIC, PP/YELLOW ACTIVE FACE PLASTIC, PA12—GF20 CABLE Ø3.0, TPU VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	NO-LOAD CURRENT	≤15 mA						
SHORT—CIRCUIT PROTECTED MAX. VOLTAGE DROP ≤ 1.8 V SWITCHING FREQUENCY WIRE—BREAK PROTECTION REVERSE POLARITY PROTECTION OUTPUT FUNCTION HOUSING MATERIAL/COLOR ACTIVE FACE CABLE VES VIBRATION RESISTANCE DEGREE OF PROTECTION YES 1.8 V ≤ 2.0 kHz INCORPORATED INCORPORATED INCORPORATED INCORPORATED PLASTIC, PO/YELLOW 4.1 2 PLASTIC, PA12—GF20 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE JO 9, 11 ms DEGREE OF PROTECTION JP 67	RESIDUAL CURRENT	≤ 0.1 mA						
MAX. VOLTAGE DROP SWITCHING FREQUENCY SWITCHING FREQUENCY SELECTION WIRE—BREAK PROTECTION REVERSE POLARITY PROTECTION OUTPUT FUNCTION HOUSING MATERIAL/COLOR ACTIVE FACE CABLE VIBRATION RESISTANCE SHOCK RESISTANCE DEGREE OF PROTECTION SHOCK RESISTANCE SIN ALL SELECTION	RATED INSULATION VOLTAGE	≤ 0.5 kV						
SWITCHING FREQUENCY ≤ 2.0 kHz WIRE—BREAK PROTECTION INCORPORATED REVERSE POLARITY PROTECTION INCORPORATED OUTPUT FUNCTION 3—WIRE, NORMALLY CLOSED, PNP HOUSING MATERIAL/COLOR PLASTIC, PP/YELLOW ACTIVE FACE PLASTIC, PA12—GF20 CABLE Ø3.0, TPU VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	SHORT-CIRCUIT PROTECTED	YES						
WIRE—BREAK PROTECTION INCORPORATED REVERSE POLARITY PROTECTION INCORPORATED OUTPUT FUNCTION 3-WIRE, NORMALLY CLOSED, PNP HOUSING MATERIAL/COLOR PLASTIC, PP/YELLOW ACTIVE FACE PLASTIC, PA12-GF20 CABLE Ø3.0, TPU 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						
REVERSE POLARITY PROTECTION INCORPORATED OUTPUT FUNCTION 3-WIRE, NORMALLY CLOSED, PNP HOUSING MATERIAL/COLOR PLASTIC, PP/YELLOW ACTIVE FACE PLASTIC, PA12-GF20 CABLE Ø3.0, TPU VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	SWITCHING FREQUENCY	≤ 2.0 kHz						
OUTPUT FUNCTION 3-WIRE, NORMALLY CLOSED, PNP HOUSING MATERIAL/COLOR PLASTIC, PP/YELLOW ACTIVE FACE PLASTIC, PA12-GF20 CABLE Ø3.0, TPU VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	WIRE-BREAK PROTECTION	INCORPORATED						
HOUSING MATERIAL/COLOR ACTIVE FACE PLASTIC, PP/YELLOW ACTIVE FACE PLASTIC, PA12-GF20 CABLE Ø3.0, TPU VIBRATION RESISTANCE SHOCK RESISTANCE DEGREE OF PROTECTION PLASTIC, PP/YELLOW 93.0, TPU Ø3.0, TPU VIBRATION ALL 3 PLANES) PLASTIC, PP/YELLOW Ø3.0, TPU IP 67	REVERSE POLARITY PROTECTION	INCORPORATED						
ACTIVE FACE PLASTIC, PA12-GF20 CABLE Ø3.0, TPU VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	OUTPUT FUNCTION	3-WIRE, NORMALLY CLOSED, PNP						
CABLE Ø3.0, TPU VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	HOUSING MATERIAL/COLOR	PLASTIC, PP/YELLOW						
VIBRATION RESISTANCE 55 Hz (IN ALL 3 PLANES) SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	ACTIVE FACE	PLASTIC, PA12-GF20						
SHOCK RESISTANCE 30 g, 11 ms DEGREE OF PROTECTION IP 67	CABLE	ø3.0, TPU						
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						

SOURCE DRAWING - FOR REFERENCE ONLY

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