Cylindrical, metal bodied units

990 - Will be replaced by Series 992

				
Dimensions	M18	M18	M18	M30
Housing material	Brass	Brass	Brass	Brass
Nominal sensing dist. (S_n), shielded S, unshielded U	5 mm S	8 mm U	5 mm S	10 mm S
Repeatability (R) S/U	≤±1%	≤±3%	≤±1%	≤±1%
Sealing; tightening torque at mid-point (Nm)	IP67; 40	IP67; 40	IP67; 40	IP67; 40
Type of connector; size of standard target	H; 18 x 18 mm	H; 24 x 24 mm	-; 18 x 18 mm	-; 30 x 30 mm
Series 921 (dc) Analogue				
Supply voltage (V_b); ripple				
Current consumption sensed; unsensed				
Max. load current (I_a)				
Max. operating frequency (f)				
Circuit protection				
Termination; wiring diagram				
Series 922 (dc) NPN N/O	**922AA3HM-A9N-L** 990	**922AB3HM-A9N-L** 990		**922AA4XM-A9N-L** 990
PNP N/O	**922AA3HM-A9P-L** 990	**922AB3HM-A9P-L** 990	**922SA3XM-A9P-L**	**922AA4XM-A9P-L** 990
NPN N/C				**922AA4XM-B9N-L** 990
PNP N/C				**922AA4XM-B9P-L** 990
NPN Changeover				**922AA4XM-C9N-L**
PNP Changeover	**922AA3HM-C9P-L**			**922AA4XM-C9P-L**
Supply voltage (V_b); ripple; voltage drop (V_d)	9,6 to 50 Vdc; 10%; ≤2,2 Vdc	9,6 to 50 Vdc; 10%; ≤2,2 Vdc	9,6 to 50 Vdc; 10%; ≤2,2 Vdc	9,6 to 50 Vdc; 10%; ≤2,2 Vdc
Current without load (I_o)	≤10 mA	≤10 mA	≤10 mA	≤10 mA
Max. load current (I_a); leakage current (I_r)	200 mA; ≤50 µA	200 mA; ≤50 µA	200 mA; ≤50 µA	200 mA; ≤50 µA
Max. operating frequency (f); hysteresis (H)	1 kHz; 3 to 15% Sr	0,5 kHz; 3 to 15% Sr	1 kHz; 3 to 15% Sr	0,5 kHz; 3 to 15% Sr
Circuit protection	⑤	⑤	⑤	⑤
Termination; wiring diagram	* Binder-Metal;2	* Binder-Metal;2	3 x 0,34 - PVC;2	3 x 0,34 - PVC;2
Power loss (T_u = +50°C to +85°C)	0	0	0	0
Compliant: EN60947-5-2 (CE)	N/A	N/A	N/A	PENDING
Series 923 (ac) N/O	**923AA3HM-A7T-L**	**923AB3HM-A7T-L**		**923AA4XM-A7T-L**
N/C				**923AA4XM-B7T-L**
Supply voltage (V_s); voltage drop (V_d) with/without LED	20 to 250 Vac; 8/6 Vac	20 to 250 Vac; 8/6 Vac		20 to 250 Vac; 8/6 Vac
Min./max. load current (I_a); leakage current (I_a)	10 to 500 mA; ≤1,5 mA	10 to 500 mA; ≤1,5 mA		10 to 500 mA; ≤1,5 mA
Max. operating frequency (f); hysteresis (H)	20 Hz; 3 to 15% Sr	20 Hz; 3 to 15% Sr		20 Hz; 3 to 15% Sr
Circuit protection	④	④		④
Termination; wiring diagram	* Binder-Metal; 5	* Binder-Metal; 5		3 x 0,50 - PVC; 5
Inrush current (I_k)	1,2 A/20 ms	1,2 A/20 ms		1,2 A/20 ms
Power loss (T_u = +50°C to +85°C)	-10 mA/°C	-10 mA/°C		-10 mA/°C
Compliant: EN60947-5-2 (CE)	N/A	N/A		N/A
Series 926 (dc) N/O				**926AA4XM-A9T-L**
N/C				
Supply voltage (V_s); ripple; voltage drop (V_d)				9,6 to 50 Vdc; 10%; ≤6 Vdc
Max. load current (I_a); leakage current (I_a)				6 to 100 mA; ≤0,7 mA
Max. operating frequency (f); hysteresis (H)				1 kHz; 3 to 15% Sr
Circuit protection				⑤
Termination; wiring diagram				2 x 0,34 - PVC; 4
Power loss (T_u = +50°C to +85°C)				0
Compliant: EN60947-5-2 (CE)				N/A

Note

Where devices are specified with plastic body material this refers to industrial plastics and polycarbonates such as ABS, glass filled polyester etc.

* For connector details refer to the Connectors section on page 11.

** See page 10 for wiring diagrams.

Circuit protection

① Circuit protection for 921 Series.

② Protection against reverse polarity and sustained short-circuit.

③ Protection against reverse polarity, 300 V/ms at 1 kOhm.

④ No protection.

⑤ Protection against reverse polarity and sustained short-circuit, 200 V/ms at 1 kOhm. 926 Series: protected against sustained short-circuit.